S4155-1

Minnesota Statistical Profile 1981

Compiled by
Research Division
Department of Economic Development
State of Minnesota
480 Cedar Street
St. Paul, Minnesota 55101
612/296-3871
(58/12/80/5000)

An Equal Opportunity Employer

Introduction

The 1981 edition of the Minnesota Statistical Profile is designed to be a convenient reference guide. It was prepared to answer the questions of a wide variety of users about subjects that relate to the economy of Minnesota.

This book is divided into two main sections. The first is an overview of the State's economy with a brief explanation of each of its major sectors. The second section is a compendium of statistical data presented in a non-interpretive manner. The statistical charts and tables are referenced to guide the user to sources that may have more detailed information.

Information presented relates to the State of Minnesota unless otherwise indicated. Minnesota is divided into 13 development regions that represent a grouping of counties based on natural, social and economic factors. Some statistics are presented on an aggregated regional basis.

The statistical profile utilizes the most current information available at the time of publication. Many individuals and agencies contributed significantly to the gathering of data and their cooperation made this document possible.

Table of Contents

Page No.

Minnesota Facts v

Overview 1

Tables

Population

1. Minnesota Population by Age, Sex and Major Ethnic Group. July 1, 1979 5
2. Regional Population 1970-1978 with Components of Change 5
3. State and Regional Population Projection: 1970-2000 6
4. Minnesota County Population Projection: 1970-2000 7

Labor

5. 1979 Projected Population, Labor Force, Participation Rate and Unemployment Rate by Age and Sex 9
6. Projected Age and Sex Characteristics of the Labor Force 1970-1990 10
7. 1979 Nonagricultural Wage and Salary Employment by Major Sector 10
8. Work Force and Employment in Minnesota Annual Averages: 1974-1978 U.S. and Minnesota Unemployment ... 11
9. Total Industry Job Openings and Labor Turnover Rates 1972-1978 12
10. Total Manufacturing Job Openings and Labor Turnover Rates 1972-1978 12

Income

11. Minnesota and U.S. Personal Income: 1958-1978 13
12. Minnesota Personal Income by Major Source: 1973-1978 14
13. Total Personal Income by County, State and SMSA: 1973-1978 15
14. Per Capita Personal Income by County, State and SMSA, 1973-1978 with Income Relatives 17
15. Total Labor and Proprietor's Income by Place of Work, by Major Industry Source, by County: 1978 20

Education

16. Number of Schools, Public and Private, 1978-1979 24
17. Total Enrollment in Public, Private and Post Secondary Schools: 1974-1978 24
18. Projected Enrollments in Vocational Education by Major Educational Code: 1979-1980 24
19. Degrees Granted by Minnesota Institutions of Higher Education: 1975-1976; 1977-1978 25
20. Sources of Revenue for Minnesota Public School Districts: 1969-1977 25

Business and Industry

21. Minnesota Based Firms in the First and Second Fortune 500 26
22. Minnesota Based Non-Industrial Companies on the "Fifty Largest" List 27
23. Rank Order of Manufacturing Gross Sales by Industry: 1978 27
24. Industry Percentage of Total Manufacturing Gross Sales: 1972-1978 28
25. Total Manufacturing Sales by Quarter: 1973-1978 28
26. Manufactures Gross Sales and Establishments by Region: 1977-1978 28
27. Manufacturing Gross Sales and Units by Major Industry: 1972-1978 29
28. Ranking of Manufacturing by Employment: 1978 29
29. Ranking of Minnesota Industrial Groups by Employment, Personal Income and Gross Product: 1978 29
30. Hours and Earnings in Minnesota Nonagricultural Industries: 1973 and 1978 30

Gross State Product

31. Minnesota Gross State Product by Industry in 1972 Dollars: 1968-1978 31
32. Trends in Gross Product of Private Nonfarm Industry in Current Dollars: 1968-1978 32
33. Trends in TPNF, Farm, Government and Total Gross State Product 32
34. Minnesota's Share of GNP by Industry and Percent Change Over Time 33
35. Percent of Gross Product by Industry and Change in Percent Share Over Time 33

Table of Contents (continued) **Page No.**

Finance and Insurance

36. Minnesota Banks, Selected Financial Items: 1979 34
37. Minnesota Savings and Loans, Selected Financial Items: 1978 and 1979 34
38. Minnesota Credit Unions, Selected Financial Items: 1978 and 1979 34
39. Minnesota Licensed Insurers, Selected Financial Items: 1976 and 1977 34

Tourist-Travel Industry

40. Total Tourist-Travel Expenditures: 1963-1979 35
41. Number of Travelers in Minnesota: 1972-1979 35
42. Minnesota Tourist-Travel Expenditures by Industry Segment: 1978 and 1979 36
43. Minnesota State Taxes Generated by the Tourist-Travel Industry: 1978-1979 36
44. Gross Sales in Hotels and Lodging by Quarter: 1971-1979 36

New and Expanding Industry

45. Minnesota New and Expanding Industry: 1979 37
46. New and Expanding Industry by Standard Industrial Classification: 1979 38
47. New and Expanding Industry Comparisons by Area, 1973-1979 39
48. New and Expanding Industry by Area: 1973-1979 40
49. New and Expanding Industry Comparisons: 1973-1979 41

Agriculture

50. Minnesota Rank Nationally in Agriculture Production and Resources: 1978-1979 42
51. Total Gross and Net Income from Farming: 1969-1978 43
52. Agricultural Production by Commodity Groups: 1972-1979 44
53. Value of Agricultural Production by Commodity Groups: 1972-1979 44
54. Minnesota Agricultural Exports for Selected Years 45

Mining and Forestry

55. Production of Iron Ore Products: Minnesota, U.S. and World: 1970-1979 46
56. Nonfuel Mineral Production in Minnesota: 1976-1979 47
57. Minnesota Taconite Plants 47
58. Minnesota Income from Specific Taxes on Minerals: 1976-1978 48
59. Pulpwood Production from Roundwood by County and Species: 1978 48
60. Forest Products Harvested in Minnesota: 1977 49

Transportation

61. Minnesota Railroad Mileage by Category: 1980 50
62. Ownership of Roadways in Minnesota 50
63. Regional Characteristics of Highways 50
64. Airline Passengers 52
65. Port of Duluth-Superior Tonnage Summary: 1959-1978 52
66. Port of Duluth-Superior Tonnage Report by Commodity: 1978-1979 53
67. Barge Shipments from River Terminals: 1973-1978 53

Energy

68. Historic Demand for Fuels: 1976-1978 54
69. Crude Oil Supply Sources for Area Refineries: 1979 55
70. Fuelwood Permits Issued by Minnesota D.N.R.: 1975-1979 55

Minnesota Facts

Area

Total Area	84,068 Square Miles
Rank in Size among States	12
Land Area	80,009 Square Miles
Inland Waters	4,059 Square Miles
Number of Lakes (10 acres and over)	12,034
Length	406 Miles
Width	358 Miles
Latitude	43°-30′ to 49°-23′-4"
Circumference	1,880 Miles

General

Organized as Territory	March 3, 1849
Entered Union (32nd State)	May 11, 1858
Constitution Adopted	1858
MOTTO: "L'Etoile du Nord" (Star of the North)	
Nicknames: North Star State; Gopher State; Lake State, Land of 10,000 Lakes; Star of the North; Bread & Butter State.	
Origin of Name	A Dakota Indian word meaning "Sky-Tinted Water."
State Flower	Showy or Pink and White Lady Slipper (Cypripedium reginae)
State Tree	Red or Norway Pine (Pinus resinosa)
State Gemstone	Lake Superior Agate
State Bird	Common Loon, also called Great Northern Diver (Gavia immer)
State Fish	Walleye (Stizostedion v. vitreum)
Capitol	St. Paul

Population (1979 Estimate)

State of Minnesota	4,008,000
Rank among States	19
Percent Urban	66
Percent Rural	34
Minneapolis-St. Paul SMSA (7 County Area)	1,991,140
Largest CITIES: (1979 estimate)	
Minneapolis	369,090
St. Paul (Capitol)	309,866
Duluth	94,517
Bloomington	78,780
Rochester	57,750
St. Louis Park	44,000
Edina	46,700
Richfield	40,830

Topography and Land

Average mean altitude	1,200 feet above sea level
Highest point: Eagle Mountain (Cook County)	2,301 feet above sea level
Lowest point: Lake Superior shore	602 feet above sea level
Navigable River Systems: Mississippi River, Red River of the North, Minnesota, Rainy, St. Louis and St. Croix.	
Water flows in three directions—Hudson Bay, Atlantic Ocean and Gulf of Mexico.	
Source of Mississippi River, located in Itasca State Park.	
Total Forested Lands	18,335,300 acres
State Parks	59
State Park Area	171,000 acres

Climate

Average last spring freeze—April 20th
Average first fall freeze—October 13th
Annual precipitation—24.71 inches
Annual snowfall—42.3 inches

Natural Resources

Value of Mineral Production	2,062,468,000
Iron Ore Production	1,960,245,000
Taconite comprised 90.4% of all iron ore shipped in 1978	
Value of Forest Production (1977)	659,325,930

Agriculture (1979)

Land in Farms	30,300,000
Number of Farms	104,000
Average size of farms	291 acres
Cash farm income	4,894,300,000

Industry

Number of Manufacturing Firms	5,810
Value Added by Manufacturing (1977)	9,245,300,000

Population and Labor Force

Minnesota's population grew 5.3 percent from 1970 to 1978. During the same years the U.S. population increased by 7.3 percent. The nonmetropolitan population grew slightly faster than the metropolitan population. (5.6 percent compared to 5.2 percent.) In 1978, 64 percent of the state's 4,008,000 people lived in metropolitan areas. Of all metropolitan areas, St. Cloud is growing most rapidly.

The three largest counties in Minnesota—Hennepin, Ramsey and St. Louis—showed population decreases from their 1970 levels. Counties surrounding Hennepin and Ramsey however, are the fastest growing with Dakota, Anoka, and Washington counties exhibiting the largest total population growth during the 1970-1978 period.

Based on the July 1, 1979 population estimates, Minnesota has 98.0 males per 100 females. The median age of the population is getting older. In 1979, 28 years was the median age compared to 26.8 years in 1970. This trend is expected to continue. 449,304 Minnesotans are now 65 years or older, while 316,166 are under five years of age.

During the five years from 1980 to 1985, Minnesotans can expect 21,700 or 2.3 percent more 0-14 year olds, 81,100 or 10 percent fewer 15-24 year olds and 210,300 or 18.7 percent more 25-44 year olds.

Minnesota's labor force, those people 16 years of age and over who are available for work, is projected to grow from 1,867,400 in 1977 to 2,293,000 in 1990. About 65 percent of this increase is due to population growth and 35 percent can be explained by changes in labor force participation rates. Female participation is projected to rise 20 percent from 1977 to 1990. An estimated 68.3 percent of Minnesotans over the age of 16 participated in the labor force in 1979. Female participation was estimated at 55.4 percent, while the male rate was 82.1 percent. Minnesota's labor force participation rate is much higher than most other states.

Total employment in Minnesota increased 2.7 percent from 1978-1979. An additional 81,000 nonagricultural wage and salary jobs in 1979, represented a 4.8 percent gain, compared to a national increase of 3.5 percent. Minnesota's largest gains were in manufacturing (23,000), services (23,000) and trade (17,000).

The state's 4.1 percent unemployment rate in 1978 was the decade's low. It was a full 1.9 percentage points below the national rate of 6.0 percent. The 1979 Minnesota unemployment rate increased slightly to 4.2 percent, but was still well below the U.S. rate of 5.8 percent.

Education

Minnesotans place a high priority on education facilities and excellence in education. State high schools graduate 96.7 percent of their students and 77 percent of the graduates went on to post-secondary education in Minnesota. Total enrollment in higher education within the state was 194,962 students in 1978. Collegiate enrollment was 162,888 of the total.

The fastest growing post high school education system in the state is public area technical-vocational institutes (AVTI). Enrollment in 1979 increased almost 13,000 to a total of 46,860 students. The 33 AVTI's offer an expanded curriculum that is unduplicated by other education agencies. The adult section of the Division of Vocational Technical Education served 162,500 people in 1979, an increase of 5,458 over 1978.

To assure that citizens have access to a variety of higher education opportunities, Minnesota has 10 financial aid programs available, as well as reciprocal tuition programs with North Dakota, South Dakota and Wisconsin and several nonfinancial aid programs.

Business and Industry

No longer a predominantly agricultural state, Minnesota today has a strong, diversified economy which depends as much on skilled personnel and technical equipment as on natural resources. Manufacturing displaced farming as the leading source of personal income in 1952. By 1978, it accounted for 24.1 percent of all personal income.

Thirteen of the top Fortune 500 companies are headquartered in Minnesota. Such nationally prominent companies as 3M, Control Data, General Mills, Honeywell and Pillsbury were started here and continue to grow and make their homes here. In addition, Cargill, Inc., one of the world's largest privately held companies, is headquartered in Minnesota.

Growth in Minnesota's electronic and related scientific industry has been dramatic. It is now the state's leading industrial employer with gross sales in 1978 of over $2 billion. Processing of food and food products continues to be an important economic activity. This sector in 1978 provided employment for 49,300 Minnesotans and had gross sales in excess of $1.9 billion.

An important indicator of the state's economic health is gross state product (G.S.P.). As an aggregation of the market value of all goods and services produced for final demand in a year, G.S.P. measures economic activity and permits historical comparisons. The leading components of Minnesota's G.S.P. are manufacturing, trade, F.I.R.E. (Finance, Insurance and Real Estate) and services. In 1978, the trade, finance and service sectors made up 44.9 percent of the G.S.P. With Minnesota's position as the center of marketing and distribution for the upper midwest, wholesale and retail trade has been the state's leading employer, second only to manufacturing as a contributor to G.S.P. Two of the nation's largest retailers, Dayton Hudson and Gamble-Skogmo have headquarters in Minneapolis. The Twin Cities is also home to four of the largest transportation companies—two railroads, Burlington Northern and the Soo Line and two airlines, Northwest and Republic.

The third largest component of G.S.P. is Finance, Insurance and Real Estate. It is also the fastest growing sector. The 18th and 19th largest banks in the country are headquartered in Minneapolis. In 1979, Minnesota had 761 banks with total assets in excess of $27 billion.

Minneapolis is the home of the Ninth District Federal Reserve System which connects the entire upper midwest financially. The state contains the second largest inland insurance center, with three of the top fifty insurance companies located in St. Paul-Minneapolis. Prudential's autonomous North Central Home Office in Minneapolis is, by itself, one of the largest

Business and Industry, continued

life insurance carriers in the country. All of this means that Minnesota, in addition to being the center of commerce and industry, is also the financial hub of the North Central Region.

Far from being land locked, Minnesota has become an important port-of-call for world commerce, ranking 16th among the states in value of manufactured export shipments in 1976. Approximately 800 companies in Minnesota, both small and large, are involved in international trade, and an estimated 23,000 Minnesotans, more than seven percent of the work force, are directly involved in the production of goods for world markets.

Tourist—Travel Industry

The Minnesota Tourist-Travel industry consists of year-round pleasure, business and necessity travel. A tourist-traveler is someone traveling 200 miles on a noncommuting business, necessity or pleasure trip. In 1979, an estimated 8,398,000 travelers spent over $1.8 billion in Minnesota. The expenditures were dispersed over many segments of the state's economy—most notable was the lodging industry with receipts of $365 million in 1979. Tax receipts generated by the tourist-travel industry in 1979 were approximately $130 million. The largest component was the state tax on gasoline ($62.5 million), followed by Minnesota's four percent sales tax ($39.5 million). The total travel industry provides approximately 105,000 full-time equivalent jobs annually.

Agriculture

Farming is a varied and vital business in Minnesota. Everything from wheat to chinese vegetables is raised within the state. Minnesota's livestock production ranges from eggs to milk to beef cattle and hogs.

The importance of farming to Minnesota can be seen by ranking the state with other top agricultural states. Minnesota ranks high in many categories of farm production and farm resources. The state is first in the production of sugar beets, sweet corn, timothy seed and turkeys. It is second in oats, spring wheat, sunflower seeds, hay, alfalfa and total dairy farms, and third in acres harvested, green peas, vegetables, hogs marketed and pig crop. Cash receipts from farm marketings were a record high of $5.8 billion in 1979, with 5.3 percent of the total from livestock. The economic value of farming is proportionately more important to Minnesota than it is to the U.S. Only 2.6 percent of Gross National Product is farm related, while 6.5 percent of Minnesota's G.S.P. comes from farming.

A source of pride to Minnesotans is the important role of the individual farm owner-operator. More than 88 percent of all farm operators are either full or part time owners. While the number of farms within the state has decreased over the years, acres per farm have increased, so that total farm acreage has remained relatively constant.

Minerals and Mining

The mineral resources of Minnesota continue to be important to the state's economic growth and development. With a total production value of $1.7 billion in 1978, Minnesota historically outranks all other states in the value of nonfuel minerals. Iron ore is the dominant mineral, accounting for 94.2 percent of the total production value.

Minnesota has been the leading Iron Ore producing state since the turn of the century, contributing more than 3.3 billion tons to the nation's supply of ore. State production peaked in 1953 when more than 80 million tons of iron ore were shipped.

Today, 90 percent of Minnesota's iron ore is produced from taconite. Magnetic taconite is the basic iron bearing rock of the Mesabi range. Processing plants remove silica and other impurities from the rock, yielding an ore that is relatively uniform in grade and structure. Total investment for taconite operations in Minnesota is in excess of $2.2 billion.

Minnesota also produces substantial quantities of sand and gravel primarily for the construction industry. Production is centered near large metropolitan areas where the demand for aggregates is the greatest. Production of other mineral raw material products from Minnesota in decreasing order of gross value are manganiferous ore, peat and clay.

The precambrian rocks of northern Minnesota have a potential for valuable mineral discoveries. However, exploration is difficult and expensive because of the thick glacial drift that covers much of the area.

Since 1974, Amax Exploration Inc. has been evaluating the feasibility of developing a copper-nickel mine and processing facilities at its Minnamax Project near Babbitt. Current planning is focused on a combined production of 60,000 tons of ore per day from open pit and underground mines. Of the companies in the state with exploration programs for base metals, Amax is the closest to developing a mine. However, no mining permits will be issued until the Regional Copper-Nickel study has been completed and analyzed by the Minnesota Legislature and State agencies.

Several firms are engaged in exploratory drilling for uranium deposits in Carlton, Pine and Kanabec counties. Further exploration is dependent on the extent of uranium in the drill cores. The State of Minnesota has a comprehensive program underway to study its more than 7 million acreas of peat resources, the largest in the contiguous United States. Currently peat is used only for horticulture, and though demand is rising, production is limited by weather conditions. As Minnesota's only known potential fossil fuel, peat is being studied for its energy applications. Minnegasco is researching the economic feasibility of peat gasification.

Forestry

The second oldest industry in Minnesota is Lumbering—only fur trading is older. Peak lumber production occurred here in 1905. After that, the prime lumber supply declined rapidly. While the cutover forestland is generally unsuited for agriculture, it does support a second growth-forest products industry that is vital to the economic health of the

Forestry, continued

northern Minnesota region.

Top timber producing counties in Minnesota are St. Louis, Koochiching and Itasca. Together they had 57 percent of the state's 1978 pulpwood production of 1.2 million cords. Aspen, Minnesota's most common species, contributed more than half of this total.

The value of forest products harvested in 1977, the most recent year for which information is available, was $659.3 million. Secondary manufacturing of forest products harvested in Minnesota and re-manufacture of imported wood added $804.4 million to the total value of the industry.

Beyond the traditional uses for wood in buildings, furniture and paper products, research is showing new ways to utilize this valuable resource. Wood applications now range from food additives to a waferboard substitute for plywood.

Potlach Corporation constructed two new waferboard plants in the state in 1979, and created 280 new forest industry jobs, producing a product that uses Minnesota's surplus hardwood. Total new investment announced during 1979 in the forest products industry exceeded $435 million.

New and Expanding

One measure of economic development activity in the state is the annual report on new and expanding industry published by the Minnesota Department of Economic Development. The study is based on reported construction starts within the year. The jobs created by new plants and expansions don't fully represent Minnesota's industrial job growth in a given year. Rather, the study is designed to be a tool for monitoring industrial trends.

In 1979, 371 construction projects represented an investment of over $1.1 billion in Minnesota's new and expanding industries, and created over 12 thousand new jobs. This was more than 114 projects, $760,000 and almost 7,000 more jobs than reported in 1978.

Of the total investment, 46 percent or $530,351,800 was in the Minneapolis-St. Paul metropolitan area. Non-metropolitan areas had an investment of $612,604,300. Jobs created in the metropolitan area amounted to 73 percent of all new jobs.

The largest single project of 1979 was $200 million expansion of the St. Regis Paper Co. in Sartell, Minnesota. It is expected to create 230 additional jobs.

Potlach Corporation was the second largest investor in 1979. With four separate projects, it invested more than $173 million. A pulp and paper facility at Cloquet was expanded for $105 million and two new waferboard manufacturing plants were constructed at Cook and Bemidji. Total jobs created by the four projects numbered 283.

Also related to the forest industry is the third largest project in 1979, an expanded Blandin Wood Products plant in Grand Rapids. Total investment was $37 million. The fourth largest project was the $35 million new headquarters building for Minnesota Mutual in St. Paul.

Revenue bonds or tax exempt mortgages provided financing for 181 of the 371 projects during 1979.

Energy

The commercial and industrial sectors used 29 percent of all primary fuels in 1978. Electric generation used another 29 percent, transportation needs took 27 percent and residential needs 15 percent. In 1978, one third of all electricity went to residential customers, 36 percent was used by industry and the remainder by the commercial sector. Nuclear energy accounted for 10 percent of the total primary fuel BTU's produced in 1978 and hydro power was less than 1 percent.

Coal

Coal use in 1978 amounted to 13.2 million tons; 85 percent of it for the generation of electricity. Two utility companies, Northern States Power and Minnesota Power and Light, used 70 percent of the coal in 1976 and their use is projected to increase to 74 percent by 1985.

Between 1976 and 1985 coal use in Minnesota is expected to double. As of September 1978, 62 companies had plans to convert from natural gas to coal. Many of these are already using coal as an alternate fuel. Conversion to coal is limited by economic, technical and environmental factors. The air quality impact of burning coal will be the most serious limitation to increased usage. The economic feasibility of converting existing facilities is dependent on the modifications required. Total replacement of the boiler would be necessary at many facilities and others would require prohibitively expensive modifications.

Alternative technologies for coal use, such as coal gasification, pulverized coal burning, coal cleaning and fluidized bed combustion are available. None are in widespread use, but all have the potential to overcome some of coal's limitations.

Oil

About 45 percent of Minnesota's energy is supplied by oil. In 1979, crude oil processed by the state's four refineries accounted for 60 percent of the petroleum consumed in Minnesota, while 38 percent entered through product pipelines and 2 percent by barge, truck or rail. Canada supplies the refineries with 65 percent of their crude oil, and the remainder came through the Portal and Williams pipelines. Half of every barrel of crude oil is refined into gasoline, while one quarter is refined into middle distillates used for heating homes and businesses, trucking, mass transit, aviation and agriculture. Liquid propane (LP) gas amounts to 4 percent of every barrel.

Although LP provides a relatively small proportion of Minnesota's energy requirements (2.3 percent in 1978), it is an important fuel in the sectors where it is used. LP's primary market is in rural areas, with 60 percent of it used for residential needs and 23 percent for agriculture. It is especially important for on-farm crop drying. A new trend in rural residential use is using LP as a back up for wood burning furnaces.

Natural Gas

Natural gas supplies 47 percent of Minnesota's industrial primary fuel requirements and more than 60 percent of the state's supply of natural gas is consumed by the commercial and industrial sectors. Supplies to large

volume (over 2,000,000 cubic feet/day) users are projected to drop about 70 percent between 1974 and 1981. The curtailment is proceeding at varying rates depending on the users' priority classification. Electric generation is the lowest priority (priority eleven); residential, small commercial and industrial use under 200,000 cubic feet/day are the highest priority (priority one).

When the temperature in Minnesota drops below a given level, there is only enough natural gas for heating homes and small commercial buildings. Large commercial and industrial customers must then switch to alternate fuels, usually fuel oil.

Alternative Energy

The most promising source of alternative energy is peat gasification. According to the Minnesota Department of Energy, it could provide up to five percent of the state's energy needs by 1995. It is possible through peat gasification to produce gas that is comparable in quality and interchangeable with natural gas. Gas from peat is more expensive than natural gas but less expensive than coal gasification.

Wood is once again popular as a source of energy for heating homes. Woodwaste is an abundant byproduct of the forest industry. Currently, it is being used in some large scale heating applications. Other sources of alternative energy that are being studied include district heating, wind power, direct solar and biomass.

Transportation

Minnesota has 7,283 miles of class I rail trackage with on-line service to points west and south. Connector terminals in Chicago, St. Louis and Memphis provide access to markets east and southeast. Four to seven day service is available to most coastal points.

With 128,540 miles of streets and highways, Minnesota has more roads than all but four states. Consequently, it is the third largest trucking center in the country. Overnight service is available to St. Louis, Kansas City and Chicago with four to five day service to coastal markets. An estimated 37.5 percent of Minnesota's communities depend entirely on trucks to meet their freight needs.

Minnesota has 1,420 miles of crude oil lines, 2,055 miles of petroleum product lines and 2,139 miles of natural gas lines for a total of 5,614 miles of trunk pipelines. Yet, the key constraint to the state's oil supply is the limited capacity of the pipeline delivery system. There are currently several pipeline projects being considered that would assure a continuing supply of crude oil to state refineries:

—the Northern Pipeline
—the Williams Pipeline expansion and
—the Northern Tier Pipeline.

Only the Northern Tier Pipeline would bring Alaskan and foreign oil to Minnesota from the west coast.

Ten airlines provide domestic and/or international service from Minneapolis-St. Paul International Airport, the largest in Minnesota. Commuter service connects smaller cities throughout the state to the Minneapolis-St. Paul Airport. Minnesota has a total of 141 publicly owned airports—19 of them are classified as key airports with paved and lighted runways more than 5,000 feet in length. Airline passengers through Minneapolis-St. Paul International Airport increased almost 40 percent between 1974 and 1979.

Two major waterways, the Mississippi River and the Great Lakes, link Minnesota with domestic and world markets. The port of Duluth-Superior has a shipping season that generally runs from April to December. In 1979, exports made up 22 percent of the total marine tonnage handled by the port and total volume increased 6.7 percent from 1979 to 1978. Bulk grain is the principal export commodity and iron ore shipments account for most of the interlake tonnage.

The ports of Minneapolis-St. Paul, located on the Mississippi River, handle about 15 million tons of freight annually. Downstream commodities include agriculture products, grains and scrap iron. Western coal is a potentially important downstream commodity. Up stream, the important commodities are petroleum products, chemicals, fertilizer, sand and gravel. The Twin City ports handled 54 percent of all 1978 shipments and receipts in the St. Paul district. The other ports in the district are Red Wing, Savage and Winona.

Development Regions

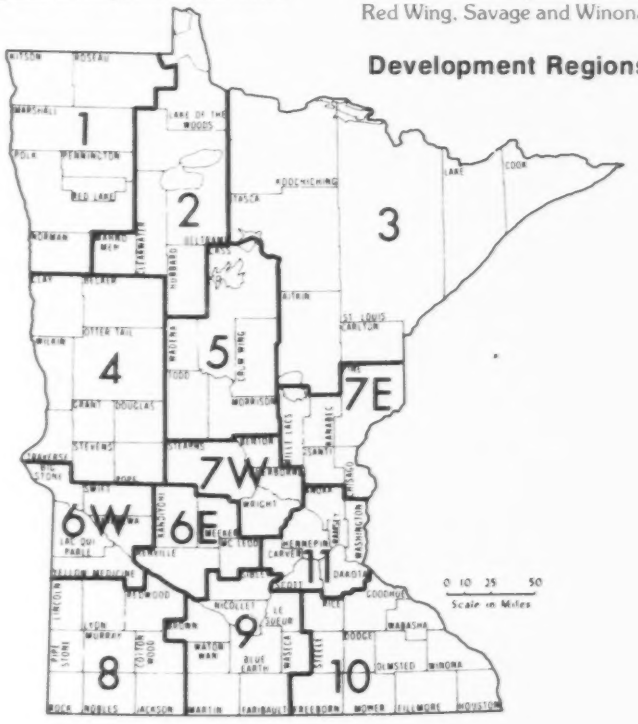


Table 1
Minnesota Population
July 1, 1979

Age	Total White & Nonwhite			Nonwhite		White	
	Total	Male	Female	Male	Female	Male	Female
Total	4,035,000	1,976,655	2,058,345	39,245	40,644	1,938,140	2,016,971
0- 4	316,166	161,642	154,524	5,502	5,300	156,140	149,224
5- 9	289,841	148,313	141,528	4,397	4,340	143,916	137,188
10-14	349,470	179,381	170,089	4,062	4,051	175,317	166,038
15-19	397,614	202,385	195,229	4,255	4,119	198,130	191,110
20-24	399,599	199,400	200,199	3,942	3,892	195,458	196,307
25-29	358,328	174,435	183,893	3,341	3,506	171,094	180,387
30-34	297,733	144,016	153,717	2,547	3,042	141,469	150,675
35-39	249,030	127,741	121,289	2,439	2,388	125,302	118,901
40-44	203,253	101,566	101,687	1,941	2,022	99,625	99,665
45-49	183,331	90,683	92,648	1,503	1,651	89,180	90,997
50-54	187,444	92,109	95,335	1,400	1,479	90,709	93,856
55-59	184,917	89,426	95,491	1,185	1,381	88,241	94,110
60-64	168,970	79,378	89,592	900	1,152	78,478	88,440
65-69	146,049	66,332	79,717	703	780	65,629	78,937
70-74	117,999	50,818	67,181	469	637	50,349	66,544
75+	185,256	69,760	115,496	659	904	69,101	114,592

Source: Minnesota Dept. of Economic Security.

Table 2
Estimates of Minnesota Regional Population, 1970-1978

			Change		Components of Change			
							Net Migration	
	4/01/70	7/01/78	Number	%	Births	Deaths	Number	%
Region 1	94,600	98,200	3,700	3.9	12,500	9,200	400	0.4
Region 2	54,600	62,700	8,100	14.8	7,400	5,100	5,800	10.5
Region 3	329,600	341,600	12,000	3.6	39,400	28,800	1,400	0.4
Region 4	185,400	197,100	11,700	6.3	21,700	16,000	6,000	3.2
Region 5	113,600	127,100	13,500	11.9	15,400	11,300	9,500	8.3
Region 6E	97,700	104,500	6,800	7 0	12,800	8,400	2,400	2.5
Region 6W	61,900	61,800	-100	-0.2	6,800	6,000	-1,000	-1.6
Region 7E	76,400	94,800	18,500	24.2	10,900	7,300	14,900	19.5
Region 7W	173,500	212,600	39,100	22.5	27,600	11,300	22,800	13.1
Region 8	141,500	140,100	-1,400	-1.0	16,700	11,900	-6,200	-4.4
Region 9	218,100	218,800	800	0.3	26,400	17,300	-8,300	-3.8
Region 10	384,500	403,000	18,400	4.8	48,000	28,200	-1,400	-0.4
Region 11	1,874,600	1,945,600	70,900	3.8	237,700	114,400	-52,400	-2.8

Note: Numbers have been rounded in this table.

Source: Office of State Demographer.

Table 3

State and Regional Population Projections: 1970-2000

	(Census)		(Estimate)		Projections									
	1970		1975		1980		1985		1990		1995		2000	
Region	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Region 1	94,600	2.5	96,500	2.5	102,000	2.5	103,800	2.5	104,500	2.4	104,500	2.4	103,100	2.3
Region 2	54,600	1.4	60,000	1.5	64,600	1.6	68,200	1.6	71,100	1.6	73,500	1.7	75,000	1.7
Region 3	329,600	8.7	330,700	8.4	349,500	8.6	356,900	8.5	362,000	8.4	365,000	8.2	365,400	8.1
Region 4	185,400	4.9	191,200	4.9	199,800	4.9	205,500	4.9	209,900	4.8	212,700	4.8	213,900	4.7
Region 5	113,600	3.0	122,500	3.1	130,400	3.2	135,700	3.2	140,000	3.2	143,400	3.2	145,700	3.2
Region 6E	97,700	2.6	102,400	2.6	107,500	2.6	111,300	2.6	114,400	2.6	117,100	2.6	119,600	2.6
Region 6W	61,900	1.6	62,000	1.6	62,200	1.5	62,000	1.5	61,400	1.4	60,300	1.4	58,500	1.3
Region 7E	76,400	2.0	89,500	2.3	97,900	2.4	109,200	2.6	120,600	2.8	132,800	3.0	144,100	3.2
Region 7W	173,500	4.6	198,600	5.1	220,900	5.4	241,800	5.8	260,400	6.0	277,200	6.2	291,300	6.4
Region 8	141,500	3.7	140,700	3.6	142,200	3.5	143,800	3.4	144,000	3.3	142,700	3.2	139,600	3.1
Region 9	218,100	5.7	219,500	5.6	220,400	5.4	223,000	5.3	225,100	5.2	225,800	5.1	225,200	5.0
Region 10	384,500	10.1	395,100	10.1	410,500	10.1	425,500	10.1	439,000	10.1	449,900	10.1	457,200	10.1
Region 11	1,874,600	49.3	1,912,500	48.8	1,962,700	48.2	2,016,900	48.0	2,077,300	48.0	2,135,500	48.1	2,191,200	48.4
STATE	3,806,100	100.0	3,921,000	100.0	4,070,600	100.0	4,203,600	100.0	4,329,700	100.0	4,440,400	100.0	4,529,800	100.0

NOTE: The sum of the regional populations and percentages may not exactly agree with the state totals due to rounding.

Source: Office of State Demographer.

Population Change, 1970-1978

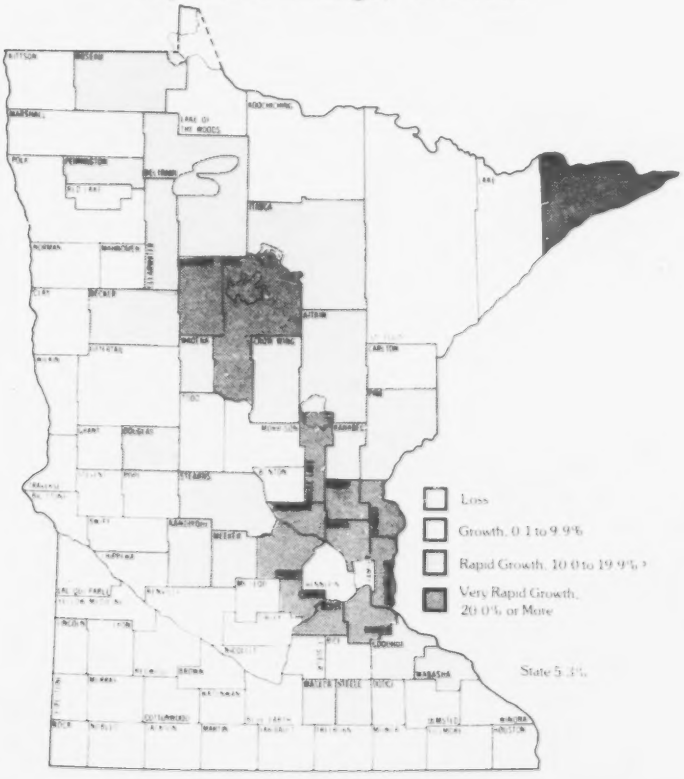


Table 4

Minnesota County Population Projections: 1970-2000

County	(Census) 1970	(Estimate) 1975	Projections 1980	1985	1990	1995	2000
Aitkin	11,400	12,400	13,600	14,100	14,600	15,100	15,400
Anoka	154,700	185,400	209,800	233,100	260,300	282,300	305,900
Becker	24,400	26,600	28,600	29,800	30,800	31,400	31,800
Beltrami	26,400	29,200	31,700	33,700	35,500	37,100	38,400
Benton	20,800	23,000	24,000	25,600	27,000	28,600	29,700
Big Stone	7,900	7,900	7,600	7,600	7,500	7,300	7,000
Blue Earth	52,300	51,600	52,400	53,300	54,200	54,900	55,500
Brown	28,900	29,700	29,300	30,000	30,600	30,800	30,700
Carlton	28,100	28,600	30,600	31,600	32,200	32,400	32,100
Carver	28,300	33,500	37,300	40,700	43,600	45,900	47,800
Cass	17,300	19,500	21,800	23,300	24,300	25,100	25,800
Chippewa	15,100	15,400	16,100	16,100	15,900	15,600	15,200
Chisago	17,500	21,900	25,300	29,700	34,400	39,800	44,900
Clay	46,600	46,600	49,300	51,100	52,400	53,400	54,000
Clearwater	8,000	8,700	9,300	9,600	9,700	9,700	9,500
Cook	3,400	3,700	4,400	4,700	4,800	4,800	4,900
Cottonwood	14,900	15,200	15,700	15,900	15,900	15,700	15,200
Crow Wing	34,800	38,700	41,300	43,800	46,200	48,500	50,600
Dakota	139,800	145,100	202,200	225,800	249,300	272,400	293,300
Dodge	13,000	13,400	13,400	13,500	13,600	13,600	13,400
Douglas	22,900	24,900	26,800	28,700	30,500	32,300	34,100
Faribault	20,900	20,200	19,600	19,100	18,700	18,100	17,300
Fillmore	21,900	21,900	21,700	21,500	21,200	20,800	20,400
Freeborn	38,100	36,700	37,400	37,800	37,900	37,600	36,800
Goodhue	34,800	37,600	39,900	42,300	44,500	46,600	48,600
Grant	7,500	7,400	7,500	7,300	7,200	7,000	6,600
Hennepin	960,100	921,000	899,400	901,200	996,000	882,400	880,000
Houston	17,600	17,900	18,400	18,800	19,200	19,400	19,900
Hubbard	10,600	12,200	13,600	14,700	15,800	16,800	17,500
Isanti	16,600	19,900	21,700	25,300	29,000	33,000	37,000
Itasca	35,500	38,300	43,800	45,800	47,000	47,300	46,500
Jackson	14,400	14,600	14,200	14,100	14,000	13,700	13,200
Kanabec	9,800	11,300	11,800	12,900	14,000	15,300	16,500
Kandiyohi	30,500	32,500	34,900	36,200	37,400	38,400	39,100
Kittson	6,900	6,800	6,900	6,800	6,700	6,500	6,200
Koochiching	17,100	17,500	18,000	18,300	18,400	18,300	17,800
Lac Qui Parle	11,200	11,200	11,200	11,100	10,900	10,700	10,400
Lake	13,400	13,600	14,600	15,000	15,100	15,000	14,700
Lake of the Woods	4,000	4,300	4,200	4,300	4,300	4,300	4,200
Le Sueur	21,300	22,300	22,200	22,600	23,000	23,300	23,500
Lincoln	8,100	8,300	8,300	8,300	8,200	8,100	7,900
Lyon	24,300	24,700	25,600	26,200	26,700	27,200	27,600
McLeod	27,700	29,000	30,500	32,200	33,800	35,400	37,400
Mahnomen	5,600	5,800	5,800	5,900	5,800	5,600	5,400
Marshall	13,100	13,200	13,700	13,800	13,800	13,700	13,400

Table 4 (Continued)

	(Census)	(Estimate)	Projections				
	1970	1975	1980	1985	1990	1995	2000
Martin	24,300	25,000	25,200	25,300	25,100	24,700	24,300
Meeker	18,400	18,700	20,700	21,300	21,700	22,100	22,300
Mille Lacs	15,700	17,900	19,400	20,800	22,000	22,900	23,500
Morrison	26,900	27,700	28,400	28,800	29,100	29,100	28,700
Mower	43,900	43,500	42,600	43,000	43,400	43,100	41,900
Murray	12,500	11,800	12,500	12,600	12,500	12,200	11,700
Nicollet	24,500	24,600	25,600	26,200	26,600	27,000	27,300
Nobles	23,200	23,100	23,400	23,800	23,900	23,700	23,100
Norman	10,000	9,400	10,200	10,300	10,200	10,000	9,600
Olmsted	84,100	88,400	95,800	103,900	112,200	119,500	125,500
Otter Tail	46,100	48,500	50,300	51,300	52,000	52,200	51,700
Pennington	13,300	14,500	15,600	16,500	17,300	18,000	18,600
Pine	16,800	18,500	19,700	20,500	21,200	21,800	22,200
Pipestone	12,800	12,000	11,700	11,800	11,700	11,500	11,100
Polk	34,400	35,100	37,300	37,700	37,600	37,300	36,500
Pope	11,100	11,000	11,500	11,600	11,600	11,500	11,400
Ramsey	476,300	460,300	450,100	446,500	444,500	443,000	442,000
Red Lake	5,400	5,300	5,200	5,200	5,200	5,200	5,100
Redwood	20,000	19,600	19,400	19,600	19,500	19,100	18,500
Renville	21,100	20,900	21,400	21,600	21,500	21,200	20,800
Rice	41,600	43,500	46,200	47,900	49,100	50,500	51,700
Rock	11,300	11,400	11,400	11,500	11,600	11,500	11,300
Roseau	11,600	12,200	13,100	13,500	13,700	13,800	13,700
St. Louis	220,700	216,600	224,500	227,400	229,900	232,100	234,000
Scott	32,400	39,600	44,600	48,600	51,700	55,500	58,700
Sherburne	18,300	25,600	32,100	37,300	41,200	43,900	45,300
Sibley	15,800	15,700	15,700	15,900	16,000	16,000	15,800
Stearns	95,400	102,300	109,600	115,700	121,100	125,600	129,300
Steele	26,900	28,700	30,100	31,200	32,000	32,500	32,700
Stevens	11,200	11,200	11,000	10,900	10,900	10,800	10,700
Swift	13,200	13,300	13,200	13,100	13,000	12,800	12,400
Todd	22,100	23,300	25,000	25,700	26,200	26,600	26,700
Traverse	6,300	6,100	6,000	6,100	5,900	5,700	5,500
Wabasha	17,200	18,400	19,400	19,800	20,000	20,100	20,100
Wadena	12,400	13,300	13,900	14,100	14,200	14,100	13,900
Waseca	16,700	17,800	18,300	18,700	19,100	19,400	19,500
Washington	83,000	103,400	119,300	131,000	141,900	153,900	163,500
Watonwan	13,300	12,600	12,100	11,900	11,800	11,600	11,300
Wilkin	9,400	8,900	8,800	8,700	8,600	8,400	8,100
Winona	44,400	45,100	45,600	45,800	46,000	46,100	46,200
Wright	38,900	47,700	55,200	63,200	71,100	79,100	87,000
Yellow Medicine	14,500	14,200	14,100	14,100	14,100	13,900	13,500
STATE	**3,806,100**	**3,921,000**	**4,070,600**	**4,203,600**	**4,329,700**	**4,440,400**	**4,529,600**

Source: Office of State Demographer

Table 5

Projected 1979 Population, Labor Force, Participation Rate and Unemployment Rate by Age Group and Sex for Minnesota

Total Male and Female

	16+	16-19	20-24	25-34	35-44	45-54	55-64	65+
Population	3,000,000	318,091	399,599	656,061	452,283	370,775	353,887	449,304
Labor Force	2,049,000	208,126	341,027	538,513	374,418	294,850	222,462	69,604
Participation Rt.	68.3	65.4	85.3	82.1	82.8	79.5	62.9	15.5
Employment	1,962,000	186,416	319,226	518,562	364,763	288,072	217,366	67,605
Unemployment	87,000	21,710	21,801	19,951	9,655	6,788	5,096	1,999
Unemployment Rt.	4.2	11.2	6.4	3.7	2.6	2.3	2.3	2.9
Males								
Population	1,447,572	161,908	199,400	318,451	229,307	182,792	168,804	186,910
Labor Force	1,188,457	110,589	187,523	310,644	224,146	175,748	136,940	42,867
Participation Rt.	82.1	68.3	94.0	97.5	97.7	96.1	81.1	22.9
Employment	1,143,470	99,309	176,160	300,482	219,449	172,414	134,067	41,589
Unemployment	44,987	11,280	11,363	10,162	4,697	3,334	2,873	1,278
Unemployment Rt.	3.8	10.2	6.1	3.3	2.1	1.9	2.1	3.0
Females								
Population	1,552,428	156,183	200,199	337,610	222,976	187,983	185,083	262,394
Labor Force	860,543	97,537	153,504	227,869	150,272	119,102	85,522	26,737
Participation Rt.	55.4	62.5	76.7	67.5	67.4	63.4	46.2	10.2
Employment	818,530	87,107	143,066	218,080	145,314	115,648	83,229	26,016
Unemployment	42,013	10,430	10,438	9,789	4,958	3,454	2,223	721
Unemployment Rt.	4.9	10.7	6.8	4.3	3.3	2.9	2.6	2.7

Source: Minnesota Department of Economic Security.

Minnesota Population Distribution by Age Groups

July 1, 1979

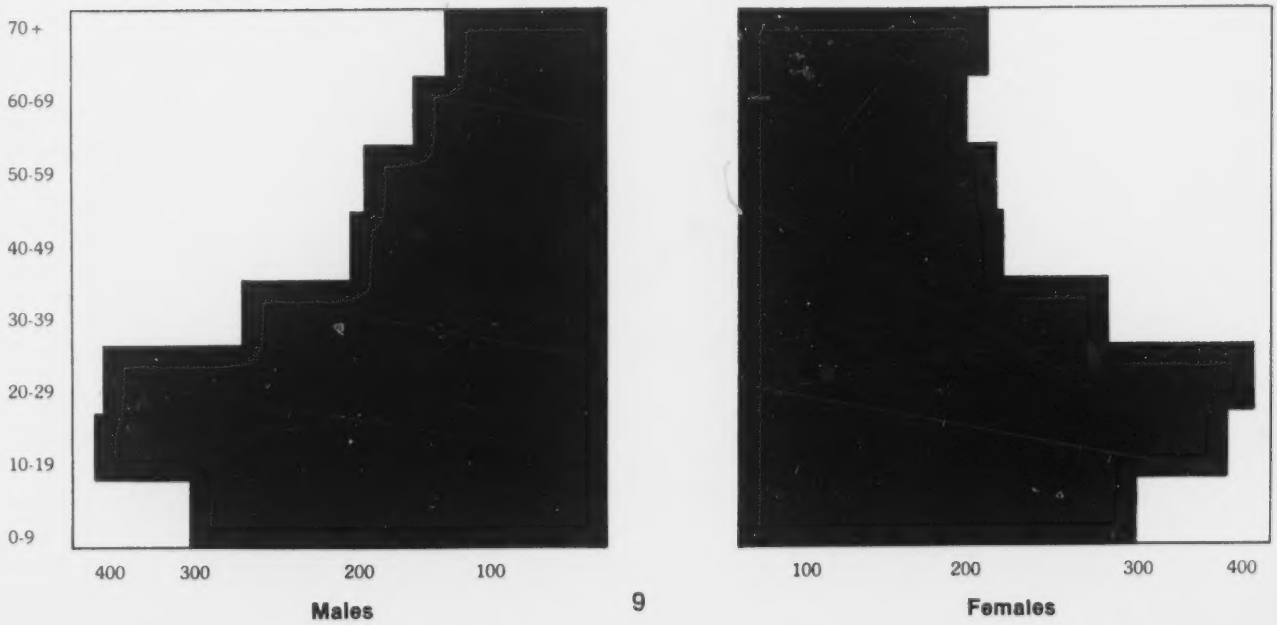


Table 6

Age and Sex Characteristics of the Labor Force 1970-1990

	1970		1977		1980		1985		1990	
Age and Sex	Labor Force	%	Labor Force	%	Labor Force	%	Labor Force	%	Labor Force	%
Age:										
16 to 19	150,740	9.8	212,700	11.4	228,800	11.4	189,500	8.7	162,300	7.1
20 to 24	208,318	13.6	275,900	14.8	311,000	15.5	318,700	14.6	270,200	11.8
25 to 34	315,797	20.5	483,200	25.9	533,500	26.5	647,700	29.8	698,500	30.5
35 to 44	288,248	18.8	316,700	17.0	371,100	18.5	460,300	21.1	565,600	24.7
45 to 54	293,259	19.1	298,700	16.0	291,600	14.5	297,300	13.7	351,100	15.3
55 to 64	212,507	13.8	220,300	11.8	218.800	10.9	212,300	9.8	199,400	8.7
65 and over	67,977	4.4	59,900	3.2	55,900	2.8	50,800	2.3	45,900	2.0
Sex:										
Male	953,528	62 0	1,088,700	58.3	1,133,500	56.4	1,191,100	54.7	1,226,500	53.5
Female	583,318	38.0	778,700	41.7	877,200	43.6	985,500	45.3	1,066,500	46.5
Total	1,536,846	100.0	1,867,400	100.0	2,010,700	100.0	2,176,600	100.0	2,293,000	100.0

Source: Minnesota State Planning Agency.

Table 7

1979 Minnesota Nonagricultural Wage and Salary Employment

Total Nonagricultural Employment	1,770,213
Total Manufacturing	382,598
Total Mining	17,072
Contract Construction	84,260
Wholesale and Retail Trade	444,362
Finance, Insurance, and Real Estate	91,741
Transportation, Communications and Public Utilities	100,319
Total Services	355,755
Total Government	294,106

Source: Minnesota Department of Economic Security.

1979 Nonagricultural Wage and Salary Employment by Sector

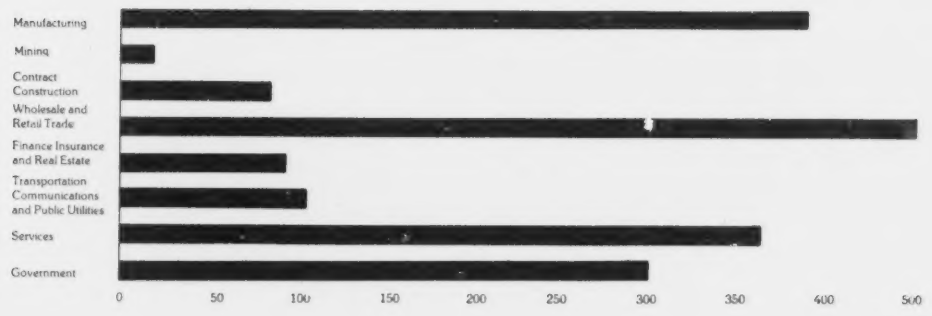


Table 8

Work Force and Employment in Minnesota 1974-1978 (Annual Averages)

(In Thousands)

	1974	1975	1976	1977	1978
Civilian Work Force	1,864.3	1,898.1	1,951.0	2,012.6	2,066.6
Employment	1,767.6	1,758.6	1,814.0	1,892.6	1,982.3
Nonagriculture	1,635.7	1,627.6	1,674.4	1,763.3	1,861.7
Agriculture	131.9	131.0	139.6	129.3	120.6
Unemployment	96.7	139.5	137.0	120.0	84.3
Unemployment Rate (%)	5.2	7.3	7.0	6.0	4.1
U.S. Unemployment Rate (%)	5.6	8.5	7.7	7.0	6.0
Total Nonagricultural Wage & Salary	1,480.9	1,474.4	1,520.9	1,597.3	1,682.8
Manufacturing	340.6	313.0	321.7	339.3	358.2
Durable Goods	198.8	180.1	185.7	199.2	214.8
Lumber and Furniture	14.0	12.3	13.6	14.9	16.4
Fabricated Metals	33.8	31.3	30.9	33.0	35.3
Nonelectrical Machinery	72.3	64.7	66.0	69.6	75.5
Electrical Machinery	24.6	22.2	23.3	25.8	27.2
Nondurable Goods	141.8	132.9	135.0	140.1	143.5
Food & Kindred Products	50.1	47.9	48.9	49.9	49.3
Paper & Allied Products	33.0	30.6	30.5	30.9	32.1
Printing & Publishing	26.4	26.3	26.9	28.9	30.8
Nonmanufacturing	1,140.3	1,161.4	1,199.2	1,258.0	1,324.6
Mining	14.7	14.3	15.0	12.9	16.5
Construction	65.2	63.6	65.4	68.7	79.6
Transportation, Communications & Public Utilities	91.4	89.1	89.9	92.4	94.2
Transportation	61.2	58.4	58.7	60.6	61.4
Communication & Pub. Utilities	30.3	30.7	31.1	31.9	32.9
Trade	364.8	369.8	383.5	403.5	425.5
Wholesale Trade	101.8	104.5	106.2	107.9	113.3
Retail Trade	263.0	265.4	277.3	295.6	312.2
Finance, Insurance & Real Estate	75.3	75.4	77.9	82.2	86.4
Services	266.8	277.8	291.5	312.0	331.5
Business Service	32.5	32.4	35.1	40.4	45.8
Health Service	91.2	96.0	100.5	106.8	111.8
Government	263.8	271.4	276.0	286.3	290.8
Federal	30.7	31.1	30.6	30.5	30.9
State	59.6	61.8	63.4	66.9	67.7
Local	173.5	178.5	182.0	188.9	192.2

Source: Statistical Abstract of the United States, Minnesota Department of Economic Security.

Table 9

Job Openings and Labor Turnover Rates
Total Industry
(Including Government)

Percentage of Total Work Force

Year	Turnover Rate	New Hires	Recall	Separation	Quits	Layoff	Total Openings
1972	3.8	3.1	0.0	3.7	2.3	0.8	0.7
1973	4.1	3.5	0.0	3.9	2.7	0.7	1.6
1974	4.0	3.4	0.0	3.9	2.6	0.7	1.2
1975	3 3	2.6	0.0	3.5	2.0	0.9	0.5
1976	3.8	3.1	0.5	3.6	2.3	0.8	0.9
1977	3.9	3.2	0.6	3.7	2.4	0.8	1.0
1978	4.3	3.6	0.6	4.0	2.7	0.7	1.2

Table 10

Total Manufacturing

Percentage of Total Work Force

Year	Turnover Rate	New Hires	Recall	Separation	Quits	Layoff	Total Openings
1972	4.2	3.0	0.0	3.9	2.0	1.2	0.7
1973	4.7	3.8	0.0	4.4	2.6	1.0	1.6
1974	4.3	3.5	0.0	4.4	2.6	1.1	1.2
1975	3.3	2.0	0.0	4.0	1.6	1.8	0.5
1976	3.8	2.8	0.8	3.7	1.8	1.3	0.9
1977	3.9	2.9	0.9	3.6	1.9	1.1	1.0
1978	4.3	3.4	0.7	3.8	2.3	0.9	1.4

Source: Minnesota Department of Economic Security.

Table 11

Minnesota and U.S. Personal Income

Year	Minnesota Per Capita Personal Income	Minnesota Total Personal Income (millions)	United States Total Personal Income(millions)	Minnesota as Percent of United States
1958	$1,935	$6,410	$356,939	1.80%
1959	1,977	6,653	380,016	1.75
1960	2,064	7,071	396,086	1.78
1961	2,129	7,386	411,301	1.80
1962	2,220	7,798	436,894	1.78
1963	2,338	8,256	459,075	1.80
1964	2,412	8,581	491,341	1.75
1965	2,643	9,494	532,022	1.78
1966	2,853	10,319	579,158	1.78
1967	3,030	11,085	620,020	1.79
1968	3,281	12,150	677,786	1.79
1969	3,555	13,358	738,233	1.81
1970	3,819	14,571	793,485	1.84
1971	3,999	15,415	851,952	1.81
1972	4,358	16,870	935,463	1.80
1973	5,113	19,882	1,045,303	1.90
1974	5,424	21,178	1,147,257	1.84
1975	5,785	22,686	1,248,631	1.82
1976	6,222	24,603	1,374,265	1.79
1977	7,088	28,214	1,523,631	1.85
1978	7,910	31,703	1,708,545	1.86

Source: Bureau of Economic Analysis, U.S. Department of Commerce.

Table 12
MINNESOTA PERSONAL INCOME BY MAJOR SOURCES
1973-1978
(Thousands of Dollars)

ITEM	1973 1/	1974 1/	1975 2/	1976 2/	1977 2/	1978 2/
Total Labor and Proprietors Income by Place of Work 3/						
By Type						
Wage and Salary Disbursements	12,173,491	13,364,649	14,412,045	15,912,106	17,593,423	20,082,387
Other Labor Income	870,568	996,611	1,209,832	1,438,876	1,700,948	2,007,764
Proprietors Income 4/	3,302,215	2,581,009	2,125,193	1,832,373	3,146,850	3,310,781
Farm	2,225,505	1,520,394	1,083,645	541,462	1,606,489	1,620,367
Non-Farm 4/	1,076,710	1,060,615	1,041,548	1,290,911	1,540,361	1,690,414
By Industry						
Farm	2,341,193	1,659,765	1,259,752	721,715	1,783,078	1,813,454
Non-Farm	14,005,081	15,282,504	16,487,318	18,461,640	20,658,143	23,587,478
Private	11,703,580	12,830,245	13,723,248	15,496,226	17,448,761	20,108,940
Ag. Serv., For., Fish, and Other 5/	43,530	49,414	48,733	56,655	70,928	82,224
Mining	188,163	202,761	254,168	292,246	258,484	391,722
Construction	970,540	1,034,572	1,064,483	1,252,307	1,374,652	1,671,593
Manufacturing	3,691,729	4,049,930	4,178,507	4,704,815	5,332,297	6,118,188
Non-Durable Goods	1,527,518	1,664,419	1,740,430	1,977,029	2,172,316	2,400,258
Durable Goods	2,164,211	2,385,511	2,438,077	2,727,786	3,159,981	3,717,930
Transportation and Public Utilities	1,215,410	1,312,251	1,372,378	1,544,330	1,733,987	1,978,386
Wholesale Trade	1,096,946	1,300,444	1,532,894	1,652,386	1,783,754	2,019,354
Retail Trade	1,656,991	1,798,578	1,820,797	2,030,652	2,274,808	2,578,057
Finance, Insurance, and Real Estate	760,625	790,473	877,018	1,043,392	1,245,060	1,428,734
Services	2,079,646	2,291,822	2,574,270	2,919,443	3,374,791	3,840,682
Government and Government Enterprises	2,301,501	2,452,259	2,764,070	2,965,414	3,209,382	3,478,538
Federal, Civilian	361,384	392,845	449,403	450,238	491,950	553,167
Federal, Military	59,247	59,620	60,137	62,016	65,716	69,354
State and Local	1,880,870	1,999,794	2,254,530	2,453,160	2,651,716	2,856,017
Personal Income by Place of Residence	19,881,700	21,177,536	22,685,858	24,571,210	28,206,359	31,679,886
Per Capita Personal Income (Dollars)	5,113	5,424	5,785	6,214	7,086	7,904
Total Population (Thousands)	3,888.2	3,904.5	3,921.5	3,954.5	3,980.4	4,008.0

1/ Estimates Based on 1967 SIC.
2/ Estimates Based on 1972 SIC.
3/ Consists of Wage and Salary Disbursements, Other Labor Income, and Proprietors, Income.
Primary source for Private Non-Farm Wages: ES-202 Covered Wages-Minnesota Department of Manpower Services.
4/ Includes the Capital Consumption Adjustment for Non-Farm Proprietors.
5/ Includes Wages and Salaries of U.S. Residents working for International Organizations in the U.S.
7/ Includes the Capital Consumption Adjustment for Rental Income Persons.

Source: Bureau of Economic Analysis, U.S. Department of Commerce.

Table 13

TOTAL PERSONAL INCOME, MINNESOTA SMSAs, AND COUNTIES 1973-1978
(Millions of Dollars, Residence Adjusted)

Region or County	1973	1974	1975	1976	1977	1978
Minnesota	$19,881.7	$21,177.5	$22,685.9	$24,571.2	$28,206.4	$31,679.9
Duluth-Superior, MN-WI	1,134.8	1,242.6	1,440.5	1,637.0	1,680.8	1,945.2
Fargo-Moorhead, ND-MN	725.8	742.6	740.2	834.8	918.6	1,060.9
Grand Forks, ND-MN	529.3	532.5	558.1	532.4	573.6	671.5
Mpls.-St. Paul, MN-WI	11,137.5	12,231.0	13,216.1	14,580.2	16,305.4	18,404.4
Rochester, MN	448.6	482.3	547.8	615.0	696.8	790.2
St. Cloud, MN	541.0	596.5	646.7	724.4	837.1	951.5
Aitkin	39.1	43.0	46.6	52.0	57.8	64.2
Anoka	823.2	929.2	1,042.8	1,196.6	1,348.0	1,541.0
Becker	100.3	98.1	107.0	116.1	139.0	151.6
Beltrami	75.1	84.5	92.8	106.1	125.5	139.9
Benton	85.2	96.0	103.1	116.6	133.5	148.5
Big Stone	49.3	40.2	38.1	29.2	50.0	52.3
Blue Earth	247.3	258.1	275.7	301.9	348.7	380.9
Brown	140.2	148.5	151.8	157.6	197.8	215.8
Carlton	107.5	115.0	127.6	144.2	158.5	180.6
Carver	139.1	157.3	169.5	183.7	220.7	247.8
Cass	57.7	65.0	72.8	82.0	95.4	105.5
Chippewa	75.6	78.1	71.0	59.5	88.7	96.4
Chisago	80.9	86.7	98.2	110.5	129.1	144.6
Clay	242.1	237.5	225.2	255.1	293.8	337.6
Clearwater	24.8	25.5	26.5	27.5	31.6	35.1
Cook	12.7	14.4	16.6	19.9	22.0	26.2
Cottonwood	82.0	83.7	82.7	85.3	114.6	120.5
Crow Wing	133.6	150.2	166.6	187.4	210.1	234.8
Dakota	823.1	950.8	1,057.0	1,204.8	1,397.2	1,589.7
Dodge	64.9	63.2	66.4	68.9	92.7	102.2
Douglas	95.7	101.5	106.5	112.4	137.1	154.4
Faribault	118.0	113.5	108.5	122.4	148.2	154.6
Fillmore	107.0	104.4	103.5	111.5	133.1	153.5
Freeborn	197.4	203.7	201.9	222.0	265.7	290.8
Goodhue	175.7	188.2	199.1	220.3	246.9	274.4
Grant	55.3	46.4	43.1	32.8	50.9	57.7
Hennepin	5,698.2	6,220.0	6,656.0	7,273.2	8,066.9	9,039.0
Houston	76.0	76.5	81.8	93.6	104.7	117.2
Hubbard	36.3	38.4	42.3	48.2	57.2	62.0
Isanti	73.1	77.7	85.8	94.8	112.2	126.3
Itasca	130.0	147.4	176.6	211.0	219.1	251.4
Jackson	89.2	84.9	86.0	78.6	104.5	112.0
Kanabec	38.9	44.1	46.7	51.5	58.3	66.3
Kandiyohi	149.1	152.7	166.9	167.3	210.4	235.7
Kittson	60.8	46.4	50.6	32.3	43.2	52.6
Koochiching	62.0	68.1	78.0	87.1	96.1	107.8
Lac Qui Parle	66.6	63.0	53.5	39.2	80.5	85.8
Lake	47.1	52.9	61.9	67.7	69.9	85.5
Lake of the Woods	14.7	13.5	15.2	16.8	20.0	21.2
Le Sueur	106.5	110.2	117.4	125.1	151.5	168.9

Table 13 (Continued)

County	1973	1974	1975	1976	1977	1978
Lincoln	39.1	40.1	34.2	28.3	47.9	52.4
Lyon	119.6	123.9	122.5	128.8	172.4	185.9
McLeod	139.8	153.9	160.3	167.0	206.1	226.2
Mahnomen	32.3	24.0	26.2	27.0	30.7	35.8
Marshal	91.4	79.4	76.4	53.8	72.7	89.0
Martin	148.7	143.2	148.6	154.0	184.7	199.8
Meeker	92.2	90.6	99.5	103.9	126.5	140.1
Mille Lacs	62.2	69.7	76.0	84.6	96.4	109.2
Morrison	92.0	95.3	100.9	110.3	128.7	140.5
Mower	220.2	223.9	244.9	256.6	297.6	314.6
Murray	72.8	70.0	61.1	57.7	96.1	99.6
Nicollet	114.9	122.8	129.2	137.0	164.4	182.3
Nobles	122.2	113.4	131.1	123.0	161.3	173.0
Norman	81.2	51.6	42.7	41.8	48.7	61.0
Olmsted	448.6	482.3	547.8	615.0	696.8	790.2
Otter Tail	191.9	206.0	212.7	216.8	268.7	293.5
Pennington	72.0	67.7	71.9	79.9	89.6	102.1
Pine	61.6	66.7	72.3	80.9	91.5	101.7
Pipestone	60.6	59.5	64.2	55.1	76.0	82.7
Polk	202.9	198.6	200.8	158.3	192.9	234.2
Pope	56.2	53.1	53.3	48.0	67.4	70.9
Ramsey	2,631.2	2,832.2	3,024.6	3,301.0	3,621.9	4,110.4
Red Lake	33.7	23.7	27.1	24.8	29.4	33.3
Redwood	111.9	106.8	101.2	91.0	146.9	152.7
Renville	124.1	119.4	115.2	103.9	161.4	170.0
Rice	180.6	195.3	208.8	231.0	264.0	293.6
Rock	74.2	64.3	76.5	62.6	88.9	101.3
Roseau	65.9	53.0	56.5	60.0	78.3	84.9
St. Louis	957.7	1,048.5	1,221.7	1,397.8	1,425.7	1,657.9
Scott	154.0	175.6	195.6	217.9	253.0	286.6
Sherburne	88.2	100.1	112.5	129.3	154.2	178.7
Sibley	83.9	82.1	84.7	76.1	109.6	116.8
Stearns	367.6	400.5	431.1	478.5	549.3	624.4
Steele	149.4	165.0	172.4	193.3	224.7	255.7
Stevens	59.9	59.5	60.7	48.9	71.5	79.0
Swift	72.0	66.9	61.6	44.3	71.4	76.9
Todd	68.7	74.3	77.6	82.1	105.4	109.2
Traverse	56.6	40.6	35.8	22.5	39.7	44.8
Wabasha	81.6	83.4	89.8	102.4	114.5	127.7
Wadena	43.7	46.7	51.2	57.6	68.4	73.7
Waseca	89.6	90.7	96.0	107.2	127.2	135.8
Washington	458.3	516.4	574.4	650.6	746.0	856.0
Watonwan	73.5	73.6	68.8	73.3	94.2	101.0
Wilkin	85.8	71.4	52.7	36.8	56.5	67.6
Winona	194.0	205.7	217.6	242.4	275.3	302.5
Wright	174.8	193.7	214.4	239.9	286.3	319.3
Yellow Medicine	77.7	74.1	61.4	55.9	94.4	99.4

Source: Bureau of Economic Analysis, U.S. Department of Commerce.

Table 14

Per Capita Personal Income, in Minnesota SMSAs and Counties 1973-1978, and Relatives, 1973 and 1978 (In Dollars, Residence Adjusted)

							Per Capita Income Relatives,	
	1973	1974	1975	1976	1977	1978	1973	1978
Minnesota	5,113	5,424	5,785	6,214	7,086	7,904	103	101
Duluth-Superior, MN-WI	4,296	4,766	5,507	6,162	6,332	7,322	86	93
Fargo-Moorhead, ND-MN	5,823	5,900	5,861	6,483	7,057	8,016	117	102
Grand Forks, ND-MN	5,318	5,322	5,712	5,315	5,648	6,710	107	86
Minneapolis-St. Paul, MN-WI	5,564	6,055	6,539	7,165	7,974	8,921	112	114
Rochester, MN	5,156	5,436	6,195	6,855	7,633	8,562	104	109
St. Cloud, MN	3,763	4,042	4,284	4,724	5,325	5,928	76	76
Counties								
Sum of SMSA Counties	5,359	5,811	6,300	6,897	7,632	8,575	108	109
Sum of Non-SMSA Counties	4,674	4,721	4,860	4,985	6,105	6,694	94	85
Aitkin	3,206	3,477	3,745	4,089	4,396	4,724	64	60
Anoka	4,699	5,126	5,623	6,301	6,979	7,723	94	99
Becker	3,890	3,806	4,017	4,246	5,045	5,331	78	68
Beltrami	2,625	2,879	3,183	3,561	4,167	4,558	53	58
Benton	3,911	4,385	4,478	5,200	5,856	6,503	79	83
Big Stone	6,235	5,095	4,811	3,761	6,552	6,796	125	87
Blue Earth	4,816	4,915	5,345	5,873	6,787	7,554	97	96
Brown	4,709	5,005	5,112	5,368	6,614	7,166	95	91
Carlton	3,753	4,043	4,464	4,977	5,384	5,986	75	76
Carver	4,352	4,842	5,055	5,422	6,360	6,962	87	89
Cass	3,082	3,419	3,728	4,092	4,621	5,111	62	65
Chippewa	5,016	5,145	4,608	3,799	5,714	6,139	101	78
Chisago	3,933	4,070	4,479	4,955	5,686	6,027	79	77
Clay	5,153	5,068	4,831	5,394	6,193	7,051	103	90
Clearwater	2,889	3,000	3,067	3,123	3,541	3,914	58	50
Cook	3,427	4,069	4,542	4,831	5,209	6,049	69	77
Cottonwood	5,514	5,579	5,454	5,646	7,520	7,854	111	100
Crow Wing	3,536	3,941	4,306	4,827	5,308	5,853	71	75
Dakota	5,136	5,651	6,244	6,736	7,606	8,359	103	107
Dodge	4,846	4,772	4,954	5,101	6,771	7,312	97	93
Douglas	3,921	4,165	4,271	4,475	5,330	5,962	79	76
Faribault	5,755	5,637	5,369	6,096	7,464	7,800	116	99
Fillmore	4,869	4,815	4,721	5,062	6,109	7,050	98	90
Freeborn	5,247	5,469	5,495	6,014	7,182	7,872	105	100
Goodhue	4,746	5,054	5,293	5,766	6,442	7,145	95	91
Grant	7,428	6,262	5,812	4,333	6,657	7,719	149	98

Table 14 (Continued)

Minnesota-Counties (continued)	1973	1974	1975	1976	1977	1978	Per Capita Income Relatives[1] 1973	1978
Hennepin	6,106	6,671	7,227	7,940	8,841	9,935	123	127
Houston	4,278	4,326	4,578	5,156	5,785	6,425	86	82
Hubbard	3,055	3,165	3,516	3,870	4,446	4,770	61	61
Isanti	3,846	3,967	4,304	4,740	5,506	5,874	77	75
Itasca	3,498	3,958	4,615	5,260	5,305	5,966	70	76
Jackson	6,238	5,764	5,904	5,433	7,231	7,861	125	100
Kanabec	3,562	3,983	4,126	4,510	5,117	5,756	72	73
Kandiyohi	4,754	4,814	5,142	5,073	6,276	6,902	95	88
Kittson	8,686	6,739	7,397	4,664	6,267	7,811	174	100
Koochiching	3,560	3,937	4,456	4,966	5,447	6,104	71	78
Lac Qui Parle	6,001	5,674	4,786	3,515	7,238	7,654	120	98
Lake	3,530	4,046	4,536	4,943	5,080	6,452	71	82
Lake of the Woods	3,608	3,231	3,577	4,125	4,721	5,234	72	67
Le Sueur	4,785	4,938	5,260	5,793	6,899	7,641	96	97
Lincoln	4,822	5,023	4,107	3,374	5,745	6,417	97	82
Lyon	4,730	4,988	4,967	5,225	6,994	7,552	95	96
McLeod	4,944	5,334	5,535	5,797	7,068	7,637	99	97
Mahnomen	5,646	4,243	4,550	4,749	5,425	5,989	113	76
Marshall	6,837	6,113	5,790	4,036	5,424	6,512	137	83
Martin	5,922	5,756	5,945	6,207	7,382	8,065	119	103
Meeker	4,604	4,510	4,973	5,147	6,222	6,883	92	88
Mille Lacs	3,678	4,021	4,250	4,652	5,233	5,783	74	74
Morrison	3,343	3,490	3,639	3,937	4,584	4,993	67	64
Mower	4,919	5,162	5,623	5,942	6,950	7,612	99	97
Murray	6,074	5,898	5,519	4,766	7,876	8,068	122	103
Nicollet	4,598	5,065	5,255	5,465	6,535	7,141	92	91
Nobles	5,267	4,978	5,681	5,330	7,037	7,606	106	97
Norman	8,419	5,453	4,514	4,368	5,024	6,434	169	82
Olmsted	5,156	5,436	6,195	6,855	7,633	8,562	104	109
Otter Tail	4,018	4,335	4,386	4,440	5,450	5,852	81	75
Pennington	4,980	4,733	4,943	5,373	5,966	6,835	100	87
Pine	3,451	3,692	3,901	4,281	4,818	5,378	69	69
Pipestone	4,938	5,014	5,361	4,659	6,417	7,081	99	90
Polk	5,775	5,650	5,726	4,434	5,364	6,621	116	84
Pope	5,028	4,770	4,836	4,251	5,935	6,172	101	79
Ramsey	5,621	6,122	6,571	7,212	7,954	9,095	113	116
Red Lake	6,270	4,441	5,123	4,709	5,539	6,305	126	80
Redwood	5,640	5,514	5,163	4,621	7,464	7,768	113	99
Renville	5,910	5,739	5,508	4,953	7,667	8,362	119	107
Rice	4,182	4,593	4,801	5,251	5,970	6,635	84	85
Rock	6,535	5,667	6,732	5,510	7,941	8,919	131	114
Roseau	5,392	4,310	4,631	4,846	6,167	6,656	108	85
St. Louis	4,386	4,852	5,640	6,342	6,461	7,520	88	96
Scott	4,309	4,582	4,938	5,352	6,072	6,630	87	85
Sherburne	3,954	4,113	4,391	4,809	5,446	5,774	79	74
Sibley	5,183	5,218	5,400	4,837	6,952	7,603	104	97

Table 14 (Continued)

Minnesota-Counties (continued)	1973	1974	1975	1976	1977	1978	Per Capita Income Relatives[1] 1973	1978
Stearns	3,688	3,951	4,213	4,599	5,179	5,850	74	75
Steele	5,318	5,831	6,008	6,693	7,534	8,336	107	106
Stevens	5,216	5,340	5,431	4,319	6,359	7,061	105	90
Swift	5,441	5,056	4,637	3,342	5,365	5,810	109	74
Todd	3,012	3,307	3,331	3,465	4,386	4,571	60	58
Traverse	9,225	7,111	5,889	3,705	6,561	7,404	185	94
Wabasha	4,519	4,596	4,888	5,475	6,064	6,648	91	85
Wadena	3,438	3,664	3,851	4,241	4,931	5,213	69	66
Waseca	5,275	5,343	5,387	5,969	6,989	7,393	106	94
Washington	4,829	5,179	5,555	6,082	6,752	7,444	97	95
Watonwan	5,527	5,753	5,460	5,839	7,571	8,182	111	104
Wilkin	9,363	7,976	5,923	4,155	6,353	7,905	181	101
Winona	4,241	4,498	4,823	5,308	6,065	6,591	85	84
Wright	3,898	4,222	4,495	4,909	5,705	6,133	78	78
Yellow Medicine	5,504	5,269	4,317	3,927	6,685	7,134	110	91

[1]Percent of national average

NOTE: 1973 relatives are high due to an exceptionally high farm income that year.

Source: Bureau of Economic Analysis, U.S. Department of Commerce.

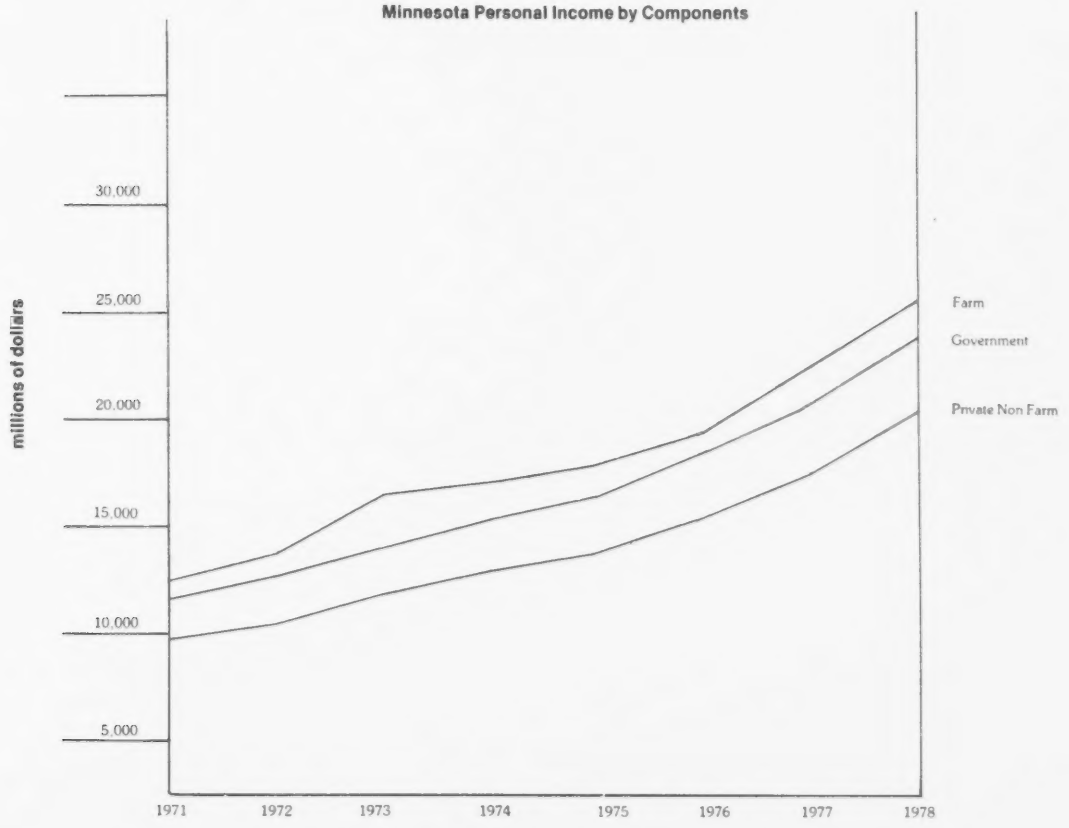


Table 15
Total Labor and Proprietors' Income by Place of Work, By Major Industry Source, By County, 1978[1]

(In Thousands of Dollars)

County	Farm	Private			
		Manufacturing	Mining	Contract Construction	Wholesale and Retail Trade
MINNESOTA	1,813,454	6,118,188	391,722	1,671,593	4,597,411
Aitkin	1,987	5,694	(D)	1,937	(D)
Anoka	6,025	293,580	109	69,961	99,481[3]
Becker	10,297	9,025	(L)	5,956	10,951[3]
Beltrami	3,161	5,570	(L)	14,440	22,911
Benton	9,031	25,264	(D)	10,622	21,836
Big Stone	13,894	2,522	(D)	2,271	5,869
Blue Earth	40,985	55,830	4,266	24,428	38,472[3]
Brown	36,392	50,075	429	(D)	16,156[3]
Carlton	1,434	57,248	153	8,054	13,048[3]
Carver	19,972	37,188	(L)	11,832	16,154[3]
Cass	2,021	4,977	(L)	4,292	7,794
Chippewa	16,994	6,043	228	4,749	7,221[3]
Chisago	9,681	13,841	99	7,174	9,916
Clay	22,954	20,571	(D)	24,968	35,467
Clearwater	3,228	2,732	0	1,424	3,294
Cook	0	1,752	(D)	2,136	556[3,2]
Cottonwood	40,979	13,022	(D)	3,177	11,383
Crow Wing	2,459	28,138	(D)	12,142	30,633
Dakota	21,028	187,822	(D)	78,467	107,903[3]
Dodge	24,207	3,986	(D)	(D)	8,650
Douglas	13,926	15,624	N/A	7,053	15,558[3]
Faribault	40,079	20,188	N/A	6,141	8,143[3]
Fillmore	42,821	8,267	(D)	4,503	14,608
Freeborn	52,210	73,923	(D)	9,258	32,759
Goodhue	32,574	53,089	155	9,825	17,503[3]
Grant	19,980	367	N/A	1,438	3,161[3]
Hennepin	12,323	2,086,921	6,741	531,596	912,043[3]
Houston	19,355	5,340	(D)	2,578	6,438[3]
Hubbard	2,216	2,799	(L)	3,085	7,161
Isanti	6,914	11,948	(D)	4,728	9,157
Itasca	1,203	34,653	54,958	15,644	23,143
Jackson	40,722	9,822	(L)	3,094	7,795
Kanabec	4,930	8,721	(L)	7,115	7,241
Kandiyohi	24,028	17,752	0	14,202	20,458[3]
Kittson	18,767	1,650	(L)	793	2,614[3]
Koochiching	808	35,109	N/A	2,602	9,362
Lac Qui Parle	32,993	5,622	(D)	1,681	4,055[3]
Lake	15	5,064	(D)	22,958	4,802
Lake of the Woods	1,744	1,909	N/A	1,915	1,739
Le Sueur	24,359	37,900	(D)	5,543	10,003[3]

Nonfarm				Government	
FIRE[2]	TCPU[3]	Services	Other Industries[4]	Federal	State and Local
1,428,734	1,987,386	3,840,682	82,224	622,521	2,856,017
(D)	(D)	5,331	53	1,054	6,155
18,473	29,844	79,650	(D)	5,323	106,603
(D)	11,448	17,487	897	3,302	19,583
2,752	9,288	16,059	429	7,457	18,207
3,688	(D)	(D)	(D)	1,227	6,598
(D)	1,476	3,682	148	810	3,951
13,047	15,872	(D)	1,202	6,518	48,031
5,329	8,989	18,372	359	1,988	12,745
3,591	9,045	11,703	(D)	1,680	23,143
4,810	4,519	18,248	(D)	1,876	14,383
1,914	2,807	16,272	799	3,549	15,012
2,558	5,901	(D)	303	1,437	7,700
2,209	1,729	9,752	313	1,526	13,640
7,767	17,447	31,622	(D)	3,203	30,882
620	1,011	3,045	280	931	5,772
343	556	3,255	(L)	1,669	3,028
2,154	2,595	7,223	(D)	1,936	9,550
7,163	14,688	23,469	(D)	3,164	38,533
45,311	55,764	100,417	3,468	26,519	83,379
1,417	1,333	3,610	(D)	833	8,424
4,668	7,350	17,352	(D)	2,734	14,985
3,330	3,570	(D)	384	1,711	10,019
3,757	5,454	9,672	(D)	2,185	8,293
6,509	9,102	22,182	(D)	2,944	15,142
6,207	16,190	23,863	(D)	2,671	21,155
1,131	700	(D)	311	709	3,591
756,020	759,653	(D)	13,553	217,409	761,501
1,653	3,924	(D)	373	1,386	6,599
1,597	1,510	5,836	164	874	5,675
2,138	5,360	9,321	(D)	1,012	26,242
4,376	12,099	17,630	631	3,845	28,419
1,560	2,047	4,520	457	829	7,437
1,160	641	4,864	318	808	5,024
5,426	13,578	22,561	(D)	3,876	33,077
905	1,230	4,001	(D)	1,409	3,834
1,717	3,639	8,647	368	2,941	9,478
1,498	1,102	3,521	227	1,067	4,875
1,222	(D)	4,977	88	1,514	7,490
339	871	2,296	83	1,774	2,847
2,600	2,405	11,094	327	1,525	8,376

Table 15 (Continued)

County	Farm	Private			
		Manufacturing	Mining	Contract Construction	Wholesale and Retail Trade
Lincoln	19,073	591	N/A	1,529	4,820
Lyon	39,136	17,021	0	11,265	15,856[3]
McLeod	26,656	71,956	109	7,789	16,233[3]
Mahnomen	5,286	556	(L)	928	2,447
Marshall	30,847	792	N/A	3,347	8,830
Martin	42,817	29,007	(L)	7,667	12,579[3]
Meeker	28,617	12,295	(D)	15,051	9,324[3]
Mille Lacs	8,752	14,166	(D)	6,405	10,626
Morrison	14,923	15,521	0	5,586	15,797
Mower	38,927	75,761	(L)	(D)	20,190[3]
Murray	47,365	610	(L)	3,202	6,798
Nicollet	25,826	22,967	(L)	7,864	8,237[3]
Nobles	47,164	20,335	(L)	3,867	15,423[3]
Norman	16,479	498	(D)	1,304	3,173[3]
Olmsted	21,611	200,552	(D)	47,636	64,406[3]
Otter Tail	33,013	22,501	(D)	13,408	29,461
Pennington	8,593	23,289	(D)	3,329	9,360[3]
Pine	7,544	4,186	0	3,618	9,013
Pipestone	18,929	8,035	(L)	1,516	9,183
Polk	35,816	19,048	(D)	6,430	17,071[3]
Pope	14,955	4,183	N/A	2,590	4,840[3]
Ramsey	2,524	1,474,407	(D)	229,803	357,242[3]
Red Lake	7,128	1,943	(L)	1,001	2,104[3]
Redwood	52,239	10,943	151	4,325	8,630[3]
Renville	58,478	10,149	53	9,375	16,259
Rice	21,644	42,914	133	12,830	22,251[3]
Rock	40,176	10,152	(D)	2,121	4,822[3]
Roseau	21,374	21,509	59	1,732	5,226[3]
St. Louis	2,022	127,646	269,043	114,962	137,063[3]
Scott	16,558	56,782	(D)	18,589	16,260[3]
Sherburne	6,619	10,629	(L)	5,202	11,302
Sibley	39,335	5,999	(L)	2,752	4,271[3]
Stearns	50,937	113,345	(D)	35,663	81,886
Steele	24,929	65,834	56	14,801	23,682
Stevens	22,153	5,014	172	2,088	8,523
Swift	16,385	5,900	(L)	2,073	5,389[3]
Todd	12,613	14,568	221	4,766	7,109[3]
Traverse	16,868	99	(D)	1,127	2,602[3]
Wabasha	22,355	20,645	(L)	3,414	11,656
Wadena	4,808	6,250	N/A	(D)	7,720[3]
Waseca	28,824	39,217	0	4,436	7,613[3]
Washington	12,350	139,203	(D)	31,671	33,282
Watonwan	27,867	12,495	(L)	3,494	9,588
Wilkin	18,517	368	(D)	2,146	4,447[3]
Winona	23,238	74,326	(D)	14,491	26,153[3]
Wright	21,955	16,592	(D)	15,151	29,035
Yellow Medicine	31,533	5,841	(D)	3,450	9,057

[1]Estimates based on 1972 Standard Industrial Classification codes.

[2]FIRE = Finance, Insurance and Real Estate; TCPU = Transportation, Communications and Public Utilities.

[3]For Retail Trade Only. 3a for Wholesale Trade only.

[4]Includes agricultural services, forestry, fishing, hunting and trapping, and residents working for international organizations.

(D) Not shown to avoid disclosure of confidential information.

(L) Less than $50,000.

N/A = Not Available.

Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Nonfarm				Government	
FIRE[2]	TCPU[3]	Services	Other industries[4]	Federal	State and Local
751	1,081	3,568	248	842	3,843
5,212	5,216	(D)	444	3,110	17,794
4,604	5,477	(D)	679	1,984	15,529
629	1,610	1,337	147	520	12,586
1,829	1,586	3,644	702	1,475	7,170
4,846	8,148	(D)	518	2,030	9,306
2,241	2,107	7,061	1,617	1,672	9,869
1,496	2,706	10,813	(D)	1,254	10,597
2,634	4,049	14,128	419	5,866	12,901
5,671	10,338	27,898	461	3,654	20,149
1,677	1,848	3,241	370	1,231	4,779
2,782	2,355	(D)	281	1,299	22,788
3,655	5,566	(D)	628	2,352	12,730
1,263	2,006	3,418	521	1,081	4,739
23,324	29,651	232,623	2,284	8,686	69,295
(D)	22,273	25,294	2,075	4,725	29,958
2,415	7,429	13,181	126	1,756	9,611
1,836	3,461	5,036	458	5,492	9,228
1,951	2,515	6,766	292	1,318	7,218
4,343	9,782	22,402	(D)	3,649	20,767
1,152	2,542	4,752	(D)	912	5,138
269,420	459,698	(D)	4,370	117,278	508,340
593	1,254	(D)	(L)	405	3,120
2,901	2,996	(D)	247	2,153	9,014
2,842	3,863	7,501	1,490	1,664	9,114
5,916	5,906	38,961	(D)	2,993	47,945
3,514	1,391	4,765	266	1,098	4,348
1,589	1,379	4,766	(D)	1,437	7,419
(D)	136,406	(D)	1,799	53,328	176,490
4,156	10,222	21,570	(D)	2,476	17,888
2,714	(D)	(D)	222	1,257	9,791
1,479	899	(D)	513	1,010	5,795
15,422	48,423	83,743	(D)	28,371	76,733
18,183	10,064	14,503	1,440	1,732	21,402
1,462	1,916	5,004	112	1,512	13,055
1,978	2,608	(D)	354	1,461	7,351
2,369	5,257	6,725	(D)	1,705	11,395
799	1,595	2,527	354	787	3,034
2,611	2,654	8,282	280	1,388	8,004
1,639	5,957	9,366	225	1,323	9,094
2,871	2,329	(D)	294	1,178	9,146
12,743	35,762	35,613	(D)	4,361	58,136
2,699	3,759	5,682	476	1,258	5,486
1,040	3,002	5,812	(D)	726	4,174
6,495	12,625	34,027	676	3,329	24,472
5,171	10,317	18,531	(D)	3,010	19,086
1,501	2,206	4,320	(D)	1,143	10,812

Table 16
Number of Schools 1978-1979

Public		Non-Public	
Elementary	1,010	Elementary	387
Middle	46	Elementary and Secondary	—
Secondary	610	Secondary	—
Area T.V.I.	33		

Source: Minnesota Department of Education

Table 17
Total Enrollment in Public and Nonpublic Schools

	Enrollment		Graduates		Enrollment in Higher Education			
Year	Public	Private	Public	Private	Public	Private	Vocational	Collegiate
1974	914,189	92,128	63,981	4,233	132,074	35,844	26,121	141,797
1975	904,255	91,893	66,535	4,176	143,588	39,622	30,080	153,130
1976	897,536	91,793	66,424	4,117	147,709	43,622	33,572	157,759
1977	879,921	90,919	68,166	4,246	149,546	46,235	34,506	161,275
1978	854,967	88,524	68,414	4,231	150,158	44,804	32,074	162,888

Source: Minnesota Department of Education, Higher Education Coordinating Board

Table 18
Projected Enrollments in Vocational Education by Major Educational Code (1979-1980)

	1979			1980		
Program	Secondary[1]	Post Secondary[2]	Adult[1]	Secondary[1]	Post Secondary[2]	Adult[1]
Agriculture	24,000	2,000	26,000	24,000	1,700	26,700
Distributive	10,000	5,260	11,000	10,000	5,260	11,500
Health	4,000	5,000	15,000	3,800	5,100	17,000
Business	23,000	9,500	18,000	23,500	9,700	18,500
Technical	--	5,600	7,000	—	5,200	7,500
Trade and Industrial	34,000	17,000	47,000	34,000	17,000	50,000
Total	95,000	44,360	124,000	95,300	43,960	131,200

[1]may be duplicated count
[2]unduplicated count

Source: State of Minnesota, Department of Education.

Table 19
Degrees Granted by Minnesota Institutions of Higher Education

Year	Associated Degree	Other Formal Recognition	Bachelor's	Master's	Doctor's	First Professional
1975-1976	4,917	77	18,263	2,978	495	1,185
1976-1977	5,586	82	18,228	3,420	522	
1977-1978	6,006	111	18,048	3,517	494	875

Source: Minnesota Higher Education Coordinating Board

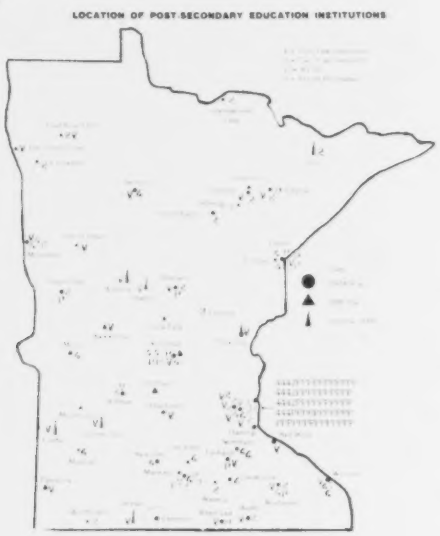


Table 20

Sources of Revenue for Minnesota Public School Districts

	Local[1]		County		State		Federal	
Year	Amount	%	Amount	%	Amount	%	Amount	%
1969	507,808,047	58.3	11,518,544	1.3	312,658,404	35.8	40,511,289	4.6
1970	569,737,584	57.2	12,684,867	1.3	374,912,785	37.6	39,512,630	3.9
1971	672,623,353	57.5	10,929,594	.9	438,676,994	37.5	47,861,334	4.1
1972	591,030,189	49.2	10,233,917	.9	539,283,182	44.9	59,816,519	5.0
1973	597,320,732	44.2	8,790,403	.6	675,332,763	50.0	70,144,348	5.2
1974	627,658,193	44.1	9,275,432	.7	722,110,879	50.7	64,116,578	4.5
1975	643,272,277	41.9	6,162,833	.4	809,143,921	52.7	75,691,601	4.9
1976	602,875,546	39.6	5,550,202	.4	828,183,859	54.4	86,124,020	5.7
1977	751,778,971	43.1	8,484,629	.5	896,180,651	51.4	86,028,916	4.9

[1]School Districts.

Source: Minnesota State Department of Education.

Table 21

Minnesota Based Firms in the 500 Largest Industrial Corporations (ranked by sales)

Rank '79	Rank '78	Industry Code	Company	Sales ($000)	Assets ($000)	Rank
51	50	38	MN Mining & Mfg. Co. (St. P)	5,440,370	4,574,888	49
79	77	44	Honeywell (Mpls)	4,209,500	3,339,600	66
90	86	20	General Mills (Mpls.)	3,745,000	1,835,200	145
142	194	20	Land O'Lakes (Mpls)	2,442,681	598,695	314
159	158	44	Control Data (Mpls)	2,248,600	2,261,400	109
164	172	20	Pillsbury (Mpls)	2,165,982	1,804,483	149
222	221	20	Geo. A. Hormel (Austin)	1,414,016	319,779	437
302	291	20	Int'l. Multifoods (Mpls.)	930,968	387,421	396
377	341	26	Bemis (Mpls)	648,475	364,211	410
400	409	20	Peavey (Mpls)	594,430	430,364	368
436	483	29	Midland Cooperatives (Mpls)	517,953	214,513	481
440	457	45	American Hoist (St. P)	508,556	374,993	404
467	489	43	Economics Laboratory (St. P)	464,367	305,196	449

NOTE. Green Giant (Chaska), ranked 430 in 1978, was acquired by Pillsbury during 1979.

Source: Fortune Magazine, May 5, 1980.

The Second 500 Largest Industrial Corporations *

'78	'77					
552	582	27	Deluxe Check Printers (St. P)	313,064	182,616	117
563	656	20	American Crystal Sugar (Moorhead)	306,402	235,878	58
675	711	46	Jostens (Mpls.)	228,014	133,637	225
677	781	45	Toro (Mpls.)	227,403	133,006	228
690	703	28	H. B. Fuller (St. Paul)	219,962	116,222	279
707	757	49	MEI (Mpls.)	209,452	131,222	232
712	738	45	McQuay-Perfex (Mpls.)	207,669	112,460	294
769	830	38	Medtronic (Mpls.)	182,201	170,110	148
779	852	45	Donaldson (Mpls.)	179,179	110,870	300
904	•	26	Pentair (St. Paul)	135,433	68,192	450
922	885	10	Apache (Mpls.)	130,802	212,555	82
963	954	23	Munsingwear (Mpls)	121,262	73,723	432

Source: The 1979 Fortune Double 500 Directory.

*** Figures for 1979 not available at time of publication.**

Table 22

Minnesota Non-Industrial Companies on the "Fifty Largest" List

1978 Rank	1977 Rank	Commercial Banking	Headquarters	Assets
18	18	Northwest Bancorp	Minneapolis	$10,905,844
19	19	First Bank Systems	Minneapolis	10,435,679
		Life Insurance		
39	38	Minnesota Mutual	St. Paul	1,570,342
40	42	Northwestern National	Minneapolis	1,339,528
50	--	I.D.S. Life	Minneapolis	985,639
		Diversified Financial		
22	21	St. Paul Companies	St. Paul	3,511,402
28	27	Investors Diversified Services	Minneapolis	2,570,551
		Retailing		**Sales**
16	18	Dayton Hudson	Minneapolis	2,981,234
24	24	Gamble-Skogmo	Minneapolis	1,954,644
		Transportation		**Operating Revenue**
6	6	Burlington Northern	St. Paul	2,532,139
23	18	Northwest Airlines	St. Paul	790,162
42	41	North Central Airlines	Minneapolis	299,053
48	45	Soo Line R.R.	Minneapolis	251,279
		Utilities		**Assets**
38	36	Northern States Power	Minneapolis	2,451,532

Source: 1979 Fortune Double 500 Directory.

Table 23
Rank Order of Manufacturing Gross Sales by Industry, 1978

(Millions of Dollars)

SIC	Classification	1978(1) Gross Sales	Percent (1)	Number of (2) Employees
35	Non-Electrical Machinery	$ 2,451.7	17.7%	75,500
20	Food, Food Products	1,933.4	14.0	49,300
36	Electrical Machinery	1,175.4	8.5	27,100
34	Fabricated Metals	1,117.1	8.1	35,300
27	Printing, Publishing	872.4	6.3	30,800
28	Chemicals Mfg.	872.4	6.3	8,400
29	Petroleum Refining	859.2	6.2	W/SIC 28
33	Primary Metals	847.1	6.1	6,800
38	Instruments	634.4	4.6	32,100
32	Stone, Clay, Glass Mfg.	552.9	4.0	9,900
26	Paper Products	550.6	4.0	32,100
24	Lumber/Wood Products	549.8	4.0	16,400
37	Transportation	468.2	3.4	11,600
30	Rubber, Plastic Mfg.	337.8	2.4	12,800
39	Miscellaneous Mfg.	331.1	2.4	W/SIC 38
25	Furniture, Fixtures	124.0	0.9	W/SIC 24
22	Textile Mills	70.4	0.5	10,100
31	Leather Products	48.1	0.4	W/SIC 30
23	Apparel Mfg.	32.7	0.2	W/SIC 22
Total		$13,829.0	100%	358,200

Source: (1) Department of Economic Development
(2) Department of Economic Security

Table 24

Industry Percentage of Total Manufacturing Gross Sales

SIC #	Major Industry	1972	1973	1974	1975	1976	1977	1978
20	Food, Food Products Mfg.	15.9	17.3	14.2	14.4	15.2	15.1	14.0
22	Textile Mills	0.5	0.0	0.5	0.5	0.4	0.5	0.5
23	Apparel Mfg.	0.3	0.3	0.3	0.3	0.3	0.3	0.2
24	Lumber/Wood Products Mfg.	2.5	3.0	3.7	3.5	3.7	3.8	4.0
25	Furniture, Fixtures	1.0	1.1	1.0	0.9	0.9	0.9	0.9
26	Paper Products Mfg.	7.8	7.4	5.5	5.5	5.7	4.8	4.0
27	Printing, Publishing	6.6	6.5	6.1	6.3	6.2	6.2	6.3
28	Chemicals Mfg.	4.5	4.9	6.1	6.5	6.1	7.2	6.3
29	Petroleum Refining	3.0	3.4	4.3	6.1	5.5	6.1	6.2
30	Rubber, Plastics Mfg.	2.1	2.4	3.1	2.7	2.7	2.5	2.4
31	Leather Products Mfg.	0.5	0.4	0.3	0.3	0.3	0.3	0.4
32	Stone, Clay, Glass Mfg.	3.8	4.0	3.7	3.8	3.9	3.9	4.0
33	Primary Metals Mfg.	4.1	4.9	5.5	5.0	5.0	5.0	6.1
34	Fabricated Metals Mfg.	8.7	8.8	9.0	8.1	7.9	8.0	8.1
35	Non-Elec. Machinery Mfg.	14.1	15.8	17.1	16.0	16.1	16.2	17.7
36	Electrical Machinery	15.7	10.0	9.8	10.2	9.5	9.2	8.5
37	Transp. Equipment Mfg.	3.1	3.1	3.4	3.0	3.4	3.0	3.4
38	Instruments Mfg.	3.3	3.6	4.0	4.1	4.3	4.6	4.6
39	Miscellaneous Mfg.	2.5	2.6	2.4	2.8	2.9	2.4	2.4
TOTAL		100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: Minnesota Department of Economic Development.

Table 25

Total Manufacturing Sales

(in thousands of dollars)

Year	Quarter 1	2	3	4	4 Qtr Total	Annual Total
1973	1,541,148	1,812,628	1,926,101	2,491,535	7,771,412	7,776,631
1974	2,027,403	2,136,150	2,215,565	2,665,639	9,045,757	9,197,510
1975	1,997,860	2,188,315	2,295,887	2,703,267	9,185,329	9,354,335
1976	2,198,469	2,524,495	2,701,478	2,978,573	10,403,015	10,535,543
1977	2,535,359	2,999,797	2,995,925	3,471,477	12,002,558	12,114,948
1978	2,884,541	3,326,789	3,429,592	3,943,354	13,584,276	13,828,989

Source: Minnesota Department of Economic Development.

Table 26

Manufactures Gross Sales and Establishments by Region

Region	Manufactures Gross Sales (000) 1977	1978	Establishments 1977	1978
1	$161,668	$214,680	107	115
2	20,536	19,927	69	66
3	626,585	883,692	278	259
4	181,213	233,825	213	210
5	177,813	206,304	137	134
6E	215,590	265,776	158	153
6W	149,437	146,614	84	82
7E	56,919	72,266	100	96
7W	346,263	407,757	205	204
8	283,064	326,399	171	177
9	513,151	574,864	309	307
10	879,164	977,766	470	466
11	6,972,355	7,954,395	2,811	2,706
Misc.	1,531,187	1,544,724	1,055	1,050
TOTAL	12,114,945	13,828,989	6,167	6,025

Source: Minnesota Department of Economic Development

Table 27

Gross Sales in Manufacturing (in Millions of Dollars)

SIC	Major Industry	1972 Sales	1972 Units	1973 Sales	1973 Units	1974 Sales	1974 Units	1975 Sales	1975 Units	1976 Sales	1976 Units	1977 Sales	1977 Units	1978 Sales	1978 Units
20	Food, Food Products Mfg.	1,048.9	479	1,342.2	453	1,303.8	427	1,346.2	421	1,602.0	396	1,831.3	374	1,933.4	382
22	Textile Mills	32.3	51	40.9	56	47.1	50	42.3	53	47.5	53	58.4	52	70.4	47
23	Apparel Mfg.	22.2	112	27.3	114	29.8	108	26.5	102	29.5	97	33.2	94	32.7	81
24	Lumber, Wood Products Mfg.	164.7	431	231.8	447	344.1	422	327.0	406	388.6	398	460.3	368	549.8	339
25	Furniture, Fixtures	67.8	146	83.2	145	87.0	136	80.8	119	94.0	112	111.6	109	124.0	106
26	Paper Products Mfg.	515.1	96	578.8	93	505.8	84	510.2	82	605.9	83	582.3	82	550.6	74
27	Printing, Publishing	432.1	1,277	503.1	1,301	565.4	1,214	589.9	1,177	652.8	1,146	747.1	1,066	872.4	1,024
28	Chemicals Mfg.	293.3	329	381.2	325	556.0	305	613.1	288	641.9	267	869.2	252	872.4	243
29	Petroleum Refining	196.2	41	263.1	41	396.6	42	567.3	40	582.3	36	743.9	34	859.2	31
30	Rubber, Plastics Mfg.	135.9	152	189.3	165	283.1	162	256.3	156	282.5	153	301.8	150	337.8	148
31	Leather Products Mfg.	30.6	32	28.8	30	29.3	31	29.0	26	33.7	23	40.3	25	48.1	23
32	Stone, Clay, Glass Mfg.	251.4	473	307.9	478	343.5	438	359.7	415	408.3	372	466.0	363	552.9	350
33	Primary Metals Mfg.	273.3	146	377.8	147	507.5	147	472.8	141	528.7	132	604.0	134	847.1	124
34	Fabricated Metals Mfg.	572.3	698	686.4	716	830.9	675	758.3	652	834.1	610	974.2	593	1,117.1	562
35	Non-Elec. Machinery Mfg.	924.9	1,356	1,231.1	1,453	1,569.5	1,379	1,501.3	1,389	1,695.7	1,391	1,963.8	1,420	2,451.7	1,450
36	Electrical Machinery	1,029.6	359	778.8	367	898.4	351	954.2	324	999.0	320	1,108.5	296	1,175.4	295
37	Transp. Equipment Mfg.	202.8	245	242.7	262	309.7	241	280.1	221	353.6	203	365.2	194	468.2	183
38	Instruments Mfg.	215.6	208	281.3	226	365.9	212	379.9	201	455.0	201	561.3	196	634.4	188
39	Miscellaneous Mfg.	163.9	412	200.5	418	224.2	394	259.2	420	300.5	387	292.3	365	331.1	370
TOTAL		6,572.8	7,047	7,776.6	7,242	9,197.9	6,783	9,354.3	6,638	10,535.5	6,380	12,114.9	6,167	13,829.0	6,026

Source: Minnesota Department of Economic Development

Table 28

Ranking of Minnesota Manufacturing by Employment 1978

Rank	Classification	Employment (Thousands)
1	Non-electrical Machinery	75.5
2	Food and Kindred Products	49.3
3	Fabricated Metals	35.3
4	Paper and Allied Products	32.1
5	Printing and Publishing	30.8
6	Electrical Machinery	27.2
7	Lumber and Wood Products, excluding Furniture	16.4
8	Rubber, Misc. Plastic and Leather	12.8
9	Transportation Equipment	11.6
10	Textiles and Apparel	10.1
11	Stone, Clay and Glass	9.9
12	Chemicals and Petroleum	8.4
13	Primary Metals	6.8
14	Miscellaneous	32.1
	TOTAL	358.2

Source: Minnesota Department of Economic Security

Table 29

Ranking of Minnesota Industrial Groups

Classification	Rank	1978[1] Employment (Thousands)	Rank	1978[2] Personal Income (Millions)	Rank	1978[3] Gross Product (Millions)
Trade, Wholesale and Retail	1	425.6	2	4,599	2	7,607
Manufacturing	2	358.2	1	6,118	1	9,121
Services	3	331.4	3	3,843	4	4,653
Government	4	290.8	4	3,463	5	4,116
Agriculture	5	136.5	6	1,834	7	2,951
Transportation, Communication and Public Utilities	6	94.3	5	1,979	6	3,752
Finance, Insurance and Real Estate	7	88.5	8	1,434	3	5,624
Construction	8	79.6	7	1,673	8	1,999
Mining and Quarrying	9	16.5	9	392	9	1,051
TOTAL		1,821.4		25,335		40,874

Source:
[1]Minnesota Department of Economic Security
[2]U.S. Department of Commerce, Survey of Current Business
[3]Minnesota Department of Economic Development

TABLE 30

Hours and Earnings in Minnesota Nonagricultural Industries
Annual Average 1973 and 1978
Production Workers' Average Hours and Earnings

	73			78			Percent Change 5 years		
	Weekly Earnings	Weekly Hours	Hourly Earnings	Weekly Earnings	Weekly Hours	Hourly Earnings	Weekly Earnings	Weekly Hours	Hourly Earnings
Manufacturing	$173.02	41.0	$4.22	$258.89	40.2	$6.44	49.6	-1.95	52.6
Durable Goods	178.07	41.8	4.26	265.51	41.1	6.46	49.1	-1.67	51.6
Lumber-Furniture	165.63	41.1	4.03	260.48	40.7	6.40	57.3	.97	58.8
Fabricated Metals	186.62	43.6	4.34	283.68	40.7	6.97	52.0	-6.65	60.6
Non-Electrical machinery	182.29	42.1	4.33	264.27	41.1	6.43	45.0	-2.38	48.5
Office computing equipment	191.76	42.9	4.47	276.27	43.1	6.41	44.1	.47	43.4
Electrical machinery	166.46	40.6	4.10	254.40	41.5	6.13	52.8	2.22	49.5
Non Durables	165.98	39.9	4.16	248.71	38.8	6.41	49.8	-2.76	54.1
Food and kindred products	161.93	39.4	4.11	245.46	38.9	6.31	51.6	-1.27	53.5
Paper and allied products	206.93	46.5	4.45	317.99	43.5	7.31	53.7	-6.45	64.3
Printing and publishing	188.93	36.9	5.12	267.18	36.7	7.28	41.4	-0.54	42.2
Mining	197.88	40.8	4.85	354.69	41.1	8.63	79.2	.73	77.9
Metal Mining	202.29	41.2	4.91	362.50	41.1	8.82	79.2	-0.25	79.6
Construction	282.00	37.4	7.54	383.90	37.2	10.32	36.1	-0.53	36.9
Transportation	210.50	39.2	5.37	296.80	38.1	7.79	41.0	-2.81	45.1
Railroads	242.87	44.4	5.47	348.75	45.0	7.75	43.6	1.35	41.7
Trucking and Warehousing	229.04	40.9	5.60	227.81	39.4	8.32	-0.5	-3.67	48.6
Communication & Pub. Utility	194.34	39.5	4.92	303.26	39.5	7.68	56.1	-0-	56.1
Trade	119.49	33.1	3.61	160.57	31.3	5.13	34.4	-5.44	42.1
Wholesale trade	177.51	39.8	4.46	251.04	38.8	6.47	41.4	-2.51	45.1
Retail trade	94.78	30.8	3.24	131.78	28.9	4.56	39.0	-6.17	40.7
General merchandise	87.32	29.7	2.96	121.09	27.9	4.34	38.7	-6.06	46.6
Food stores	123.31	29.5	4.18	153.71	28.1	5.47	24.6	-4.74	30.9
Automotive Stores	144.77	37.7	3.84	226.41	37.3	6.07	56.4	-1.06	58.1
Eating and drinking	56.70	25.2	2.25	72.07	23.4	3.08	27.1	-7.14	36.9

Source: Minnesota Dept. of Economic Security

Average Hourly Earnings of Minnesota Production Workers

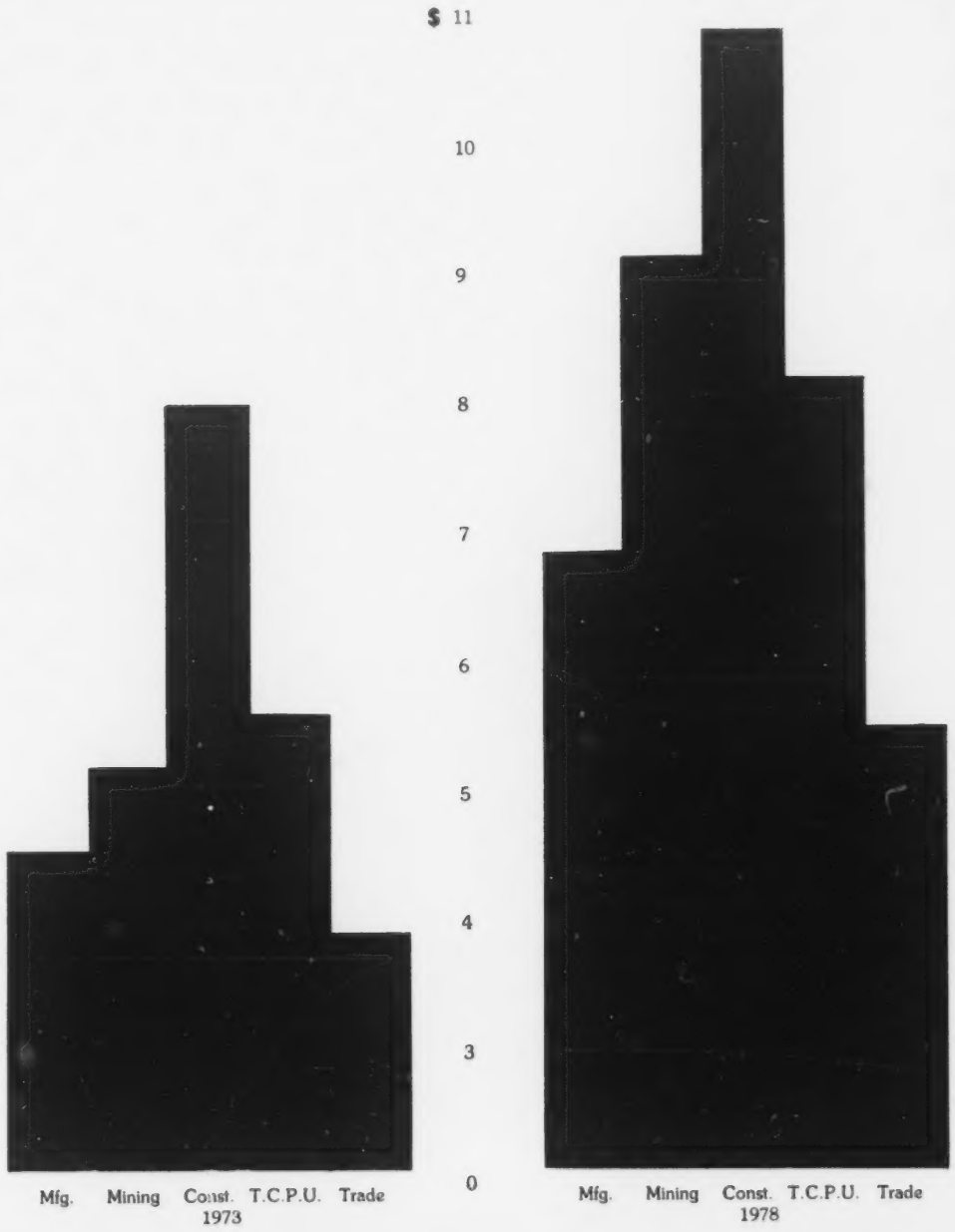


Table 31

Minnesota Gross State Product: 1972 Dollars by Industry

(Millions of Dollars)

Year	Mining	Constr.	Manuf.	Trade	FIRE[1]	TCPU[1]	Serv.	TPNF[1]	Farm	Govt.	GSP	% Change in GSP
1968	428	1,227	4,281	3,427	2,405	1,659	2,060	15,487	1,294	2,096	18,877	—
1969	427	1,229	4,554	3,523	2,565	1,800	2,136	16,234	1,241	2,207	19,682	4.3
1970	423	1,148	4,422	3,700	2,688	1,762	2,227	16,370	1,526	2,306	20,202	2.6
1971	466	1,134	4,304	3,793	2,821	1,814	2,107	16,439	1,471	2,369	20,279	0.4
1972	404	1,034	4,738	3,956	2,860	1,963	2,184	17,139	1,385	2,441	20,965	3.4
1973	441	1,060	5,258	4,239	2,979	2,222	2,351	18,550	1,866	2,463	22,879	9.1
1974	330	1,031	4,956	4,209	3,135	2,216	2,374	18,251	1,623	2,474	22,348	-2.3
1975	359	958	4,824	4,260	3,276	2,220	2,397	18,294	1,471	2,558	22,323	-0.1
1976	356	1,098	5,257	4,545	3,494	2,334	2,561	19,645	1,191	2,594	23,430	5.0
1977	293	1,130	5,666	4,770	3,851	2,441	2,765	20,916	2,016	2,542	25,474	8.7
1978	397	1,242	6,120	5,045	4,069	2,643	2,928	22,444	1,696	2,680	26,820	5.3
Percent Change[2]	-2.5	-0.5	3.2	3.8	5.1	4.5	3.2	3.4	2.4	2.1	3.2	-

[1]FIRE—Finance, insurance and real estate. TCPU—Transportation, communications and public utilities. TPNF—Total Private Nonfarm.

[2]Compound annual rate of growth between average of years 1968-70 and 1976-78.

Source: Minnesota Department of Economic Development.

Table 32

Trends in Gross Product of Private Nonfarm Industries, 1968-1978 (In millions of current dollars)

Year	Mining	Con-struction	Manu-facturing	Trade	FIRE[1]	TCPU[1]	Services
1968	362	798	3,857	2,905	2,030	1,386	1,674
1969	368	920	4,198	3,176	2,239	1,517	1,846
1970	385	968	4,247	3,470	2,466	1,582	2,027
1971	428	1,041	4,262	3,712	2,720	1,732	2,034
1972	404	1,034	4,738	3,956	2,860	1,963	2,184
1973	491	1,176	5,406	4,475	3,097	2,259	2,473
1974	554	1,245	5,681	4,980	3,384	2,411	2,718
1975	726	1,303	6,095	5,543	3,811	2,625	3,067
1976	788	1,521	6,984	6,161	4,282	2,973	3,497
1977	709	1,667	7,930	6,760	5,011	3,289	4,070
1978	1,051	1,999	9,121	7,607	5,624	3,752	4,653
Percent Change[2]	10.9	8.6	8.7	10.0	10.4	10.6	10.4

[1]FIRE—Finance, insurance and real estate; TCPU—Transportation, communications and public utilities.

[2]Compound annual rate of growth between average of years 1968-70 and 1976-78.

Source: Minnesota Department of Economic Development.

Table 33

Trends in TPNF[1], Farm, Government and Total Gross State Product (Millions of current dollars)

Year	TPNF[1]	Farm	Government	GSP	% Change in GSP
1968	13,012	995	1,527	15,533	-
1969	14,264	1,057	1,704	17,025	9.6
1970	15,145	1,271	1,951	18,367	7.9
1971	15,929	1,242	2,180	19,351	5.4
1972	17,139	1,385	2,441	20,965	8.3
1973	19,377	2,894	2,607	24,878	18.7
1974	20,973	2,420	2,809	26,202	5.3
1975	23,170	2,147	3,158	28,475	8.7
1976	26,206	1,705	3,459	31,370	10.2
1977	29,436	2,884	3,645	35,965	14.6
1978	33,807	2,951	4,116	40,874	13.6
Percent Change[2]	9.8	10.8	10.1	9.9	
Percent Change U.S.[2]	9.3	9.7	9.2	GNP 9.3	

[1]TPNF-Total Private Nonfarm

[2]Compound Annual rate of growth between average of years 1968-70 and 1976-78.

Source: Minnesota Department of Economic Development.

Table 34

Minnesota's Share of GNP by Industry and Percent Change Over Time

Industry	Minnesota's Percentage Share of U.S. by Industry and GSP[1]	Change in Percent Share[2]
Farm	4.85	7.8
Trade	2.09	3.0
Construction	2.05	1.5
TCPU[3]	1.96	3.7
GSP	1.91	3.8
FIRE[3]	1.86	8.8
Manufacturing	1.76	6.7
Mining	1.75	-23.6
Services	1.72	-2.8
Government	1.57	7.5

[1]Based on average of years 1968-1970 in 1972 Constant Dollars.

[2]Based on change from average of years 1968-1970 and 1976-1978 in 1972 Constant Dollars.

[3]FIRE-Finance, insurance and real estate; TCPU-Transportation, communications and public utilities.

Source: Minnesota Department of Economic Development.

Table 35

Percent of Gross Product by Industry and Change in Percent Share Over Time

Industry	Percent of Gross Product[1]		Change in Percent Share[2]	
	Minnesota	U.S.	Minnesota	U.S.
Manufacturing	22.5	24.5	-0.4	-2.8
Trade	19.0	17.3	5.0	5.5
FIRE[3]	15.1	15.5	16.2	10.7
Services	10.9	12.1	0.0	6.1
Government	10.3	12.6	-8.0	-11.3
TCPU[3]	9.8	9.5	10.1	10.5
Farm	6.5	2.6	-5.8	-7.1
Construction	4.6	4.3	-24.6	-23.2
Mining	1.4	1.5	-36.4	-11.8

[1]Based on average of years 1976-1978 in 1972 Constant Dollars.

[2]Based on change from average of years 1968-70 and 1976-78 in 1972 Constant Dollars.

[3]FIRE-Finance, insurance and real estate; TCPU-Transportation, communications and public utilities.

Source: Minn. Department of Economic Development.

Finance and Insurance

Table 36
Minnesota Banks: Selected Financial Items (Midyear 1979)

National Chartered Banks	204
State Chartered Banks	554
Mutual Savings Banks	1
Other Banking Institutions	2
Total Banks	761
Deposits	$21,560,925,000
Capital Accounts	1,952,010,387
Total Assets	27,406,265,345

Source: Polk's World Bank Directory

Table 37
Minnesota Savings and Loans, Selected Financial Items

	12-31-79	12-31-78
Federal Chartered S&L	44	44
State Chartered S&L	13	15
Total S&L's	57	59
Total Assets	$10,053,939,000	$9,254,657,000

Source: Savings League of Minnesota

Table 38
Minnesota Credit Unions, Selected Financial Items

	1977	1978
Credit Unions	271	271
Total Assets	$667,720,466	$765,222,355
Deposits	102,905,984	127,813,921
Shares	480,489,343	538,354,457
Loans	530,927,174	626,672,626

Source: Minnesota Department of Commerce

Table 39
Minnesota Licensed Insurers, Selected Financial Items

(Thousands of Dollars)

	Assets	Liabilities	Minnesota Premiums Written
Minnesota Based Life Insurers	$ 4,342,943	$ 4,032,929	$ 196,893
Domestic Life Insurers	318,215,645	299,101,430	964,184
Foreign Life Insurers	5,041,298	4,943,231	34,225
Total All Insurers			
1977	327,599,886	308,077,590	1,195,302
1976	299,271,377	281,113,394	1,066,536
Minnesota Based Fraternals	1,353,686	1,237,992	22,077
Domestic Fraternals	4,911,695	4,300,601	29,878
Foreign Fraternals	681,298	618,454	1,958
Total All Fraternals			
1977	6,946,679	6,157,048	53,913
1976	6,432,238	5,686,114	49,896

Table 40

Minnesota Tourist—Travel Expenditures

(Current Dollars)

Year	Old Methodology Expenditures	Old Methodology Percent Increase	New Methodology Expenditures	New Methodology Percent Increase
1963	$ 482,808,000	-	-	-
1966	535,000,000	-	-	-
1967	583,000,000	9%	-	-
1968	653,000,000	12	-	-
1969	750,000,000	15	-	-
1970	810,000,000	8	-	-
1971	860,000,000	6	$ 802,200,000	-
1972	886,000,000	3	837,700,000	4.2%
1973	921,000,000	4	940,300,000	12.2
1974	996,000,000	8	1,086,600,000	15.6
1975	1,106,000,000	11	1,200,300,000	10.5
1976	[2]	-	1,328,000,000	10.6
1977	-	-	1,431,000,000	7.8
1978	-	-	1,587,000,000	10.9
1979	-	-	1,802,000,000	13.6

[1]The methodology of computing Minnesota Tourist-Travel expenditures has been modified. The availability of quarterly data on receipts in lodging establishments (SIC 70), has allowed more accurate measurements of the total Tourist-Travel Industry.
[2]Source discontinued.

Table 41

Number of Travelers in Minnesota

Year	Number of Travelers	Percent Change
1972	6,770,000	
1973	6,871,000	1.5
1974	7,394,000	7.6
1975	7,749,000	4.8
1976	8,159,000	5.3
1977	8,200,000*	0.5
1978	8,266,000	0.8
1979	8,398,000	1.6

*U.S. Census of Transportation 1977, National Travel Survey. Prepared by Minnesota Department of Economic Development, Research Division.

Source: Minnesota Department of Economic Development.

Table 42

Minnesota Tourist-Travel Expenditures by Industry Segment (thousand dollars)

Segment	1978	1979	Percent of Total
Transportation	$397,000	454,000	25%
Commercial Accommodations	317,000	363,000	20
Food and Beverage	429,000	490,000	27
Other Retail	349,000	399,000	22
Amusements and Other Services	95,000	109,000	6
Total	1,587,000	1,815,000(P)	100

Source: Minnesota Department of Economic Development, Research Division.

Table 43

Minnesota State Taxes Generated by the Tourist-Travel Industry

Major Tax Sources	1978	1979(p)
Sales Tax	34,875,000	39,520,000
Gasoline Tax	55,180,000	62,530,000
Alcoholic Beverage Tax	15,025,000	17,030,000
Individual Income Tax	9,635,000	10,920,000
Total Taxes Generated	114,715,000	130,000,000

Source: Minnesota Department of Economic Development, Research Division.

Table 44

Gross Sales (in thousands of dollars) for SIC 70: Hotels, Lodging

	Quarter				4 Qtr.	Annual	Annual
Year	1	2	3	4	Total	Filers	Total
1971	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	160,440
1972	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	167,540
1973	35,919	50,729	62,158	43,370	192,176	105	192,281
1974	41,563	58,060	70,778	45,909	216,310	5,892	222,202
1975	46,720	62,708	80,107	51,159	240,694	4,301	244,995
1976	55,282	67,862	84,525	56,656	264,325	5,424	269,749
1977	53,232	74,440	92,431	61,637	281,740	4,468	286,208
1978	61,725	81,270	101,803	68,867	313,665	2,817	316,482
1979	73,114	91,282	116,401	80,000*	n.a.	n.a.	365,000*

*Provisional Estimate

Source: Minnesota Sales and Use Tax Receipt Reports, Tax Research Division, Minnesota Department of Revenue.

New and Expanding Industry

Table 45

Minnesota's 1979 New and Expanding Industry Data

	No.	Investment	Sq. Ft.	New Jobs
New Industry				
Manufacturing	117	$ 282,025,800	4,474,244	3,935
Warehousing	99	121,635,300	3,163,150	3,745
Research & Development	3	4,200,000	583,000	90
Headquarters	10	95,950,000	1,444,500	616
TOTAL	229	$ 503,811,100	9,664,894	8,386
Expanding Industry				
Manufacturing	90	$ 486,960,000	2,822,230	3,643
Warehousing	36	27,897,000	860,400	339
Research & Development	3	22,998,000	364,000	0
Power Plants	3	29,150,000	92,000	20
Pollution Control	4	11,790,000	-	10
Headquarters	6	60,350,000	1,128,600	160
TOTAL	142	$ 639,145,000	5,267,230	4,172
Total New and Expanding Industry				
Manufacturing	207	$ 769,985,800	7,296,474	7,578
Warehousing	135	149,532,300	4,023,550	4,084
Research & Development	6	27,198,000	947,000	90
Power Plants	3	29,150,000	92,000	20
Pollution Control	4	11,790,000	-	10
Headquarters	16	156,300,000	2,573,100	776
TOTAL	371	$1,142,956,100	14,932,124	12,558

Source: Minnesota Department of Economic Development.

Table 46

Minnesota's 1979 New and Expanding Industry Data by Standard Industrial Classification

SIC	Industry	No.	Investment	Sq. Ft.	New Jobs
2000	Food & Kindred Products	20	$ 91,955,000	1,502,000	447
2200	Textile Mill Products	1	700,000	NA	8
2300	Apparel & Other Textiles	7	3,678,000	101,100	217
2400	Lumber & Wood Products	13	80,769,000	657,140	487
2500	Furniture & Fixtures	6	2,312,000	111,700	105
2600	Pulp, Paper & Paperboard	8	365,610,000	302,000	474
2700	Printing & Publishing	24	38,472,000	981,000	384
2800	Chemical & Allied Products	2	1,450,000	46,400	83
2900	Petroleum Refining & Related Products	1	2,500,000	NA	NA
3000	Rubber & Plastic Products	7	4,240,000	69,000	113
3100	Leather & Leather Products	0	0	0	0
3200	Stone, Clay, Glass & Concrete Products	4	5,895,000	57,000	17
3300	Primary Metal Industries	4	2,890,000	67,000	58
3400	Fabricated Metal Products	22	17,642,000	399,300	379
3500	Machinery, except Electrical	48	44,667,000	1,645,104	2,097
3600	Electrical Machinery & Supplies	12	20,463,000	388,850	761
3700	Transportation Equipment	8	32,487,800	146,980	1,055
3800	Professional, Scientific & Controlling Instruments	15	49,955,000	694,900	770
3900	Miscellaneous Manufacturing	5	3,300,000	127,000	123
	TOTAL MANUFACTURING	206	768,985,800	7,296,474	7,578
	TOTAL WAREHOUSING	135	149,532,300	4,023,500	4,084
	TOTAL RESEARCH & DEVELOPMENT	6	27,198,000	947,000	90
	TOTAL POWER PLANTS	3	29,150,000	92,000	20
	TOTAL POLLUTION CONTROL	4	11,790,000	NA	10
	TOTAL HEADQUARTERS	16	156,300,000	2,573,100	776
GRAND TOTAL		371	$1,142,956,100	14,932,124	12,558

Source: Minnesota Department of Economic Development.

Table 47

Minnesota's New and Expanding Industry Comparisons by Area, 1973-1979

	No.	Investment	Sq. Ft.	New Jobs
NEW RURAL INDUSTRY				
1973	143	$293,682,940	3,068,550	4,074
1974	146	348,667,200	2,966,810	3,781
1975	90	40,075,200	1,314,200	1,429
1976	51	102,407,000	907,090	1,880
1977	59	39,293,400	796,320	980
1978	53	154,247,000	1,891,175	1,477
1979	84	173,401,300	2,637,790	2,131
EXPANDING RURAL INDUSTRY				
1973	156	89,700,043	2,981,826	3,059
1974	115	410,307,600	1,132,100	2,344
1975	60	278,561,400	791,440	1,155
1976	42	162,088,000	589,000	868
1977	55	436,984,400	1,327,350	1,321
1978	54	86,594,300	746,985	698
1979	73	439,203,000	2,105,500	1,201
TOTAL NEW & EXPANDING RURAL INDUSTRY				
1973	299	383,382,843	6,050,376	7,133
1974	261	758,974,800	4,098,910	6,125
1975	150	318,636,600	2,105,640	2,584
1976	93	264,495,00	1,496,090	2,748
1977	114	476,277,800	2,123,670	2,301
1978	107	240,841,300	2,638,160	2,175
1979	157	612,604,300	4,743,290	3,332
NEW METROPOLITAN INDUSTRY				
1973	105	66,023,024	4,512,315	1,968
1974	76	46,410,400	3,612,600	1,324
1975	52	41,679,100	1,648,320	1,302
1976	38	38,131,000	999,900	900
1977	84	77,580,000	3,587,370	1,986
1978	97	72,025,850	4,337,900	1,751
1979	145	330,409,800	7,027,104	6,255
EXPANDING METROPOLITAN INDUSTRY				
1973	79	40,345,426	2,311,335	1,099
1974	59	32,861,600	1,226,000	1,123
1975	30	61,423,400	880,300	749
1976	26	56,461,000	623,050	345
1977	35	45,354,000	928,740	710
1978	53	68,445,440	1,707,400	1,769
1979	69	199,942,000	3,161,730	2,971
TOTAL NEW & EXPANDING METROPOLITAN INDUSTRY				
1973	184	106,368,450	6,823,650	3,067
1974	135	79,272,000	4,838,600	2,447
1975	82	103,102,500	2,528,620	2,051
1976	58	94,592,000	1,622,950	1,245
1977	119	122,934,000	4,516,110	2,696
1978	150	140,471,290	6,045,300	3,520
1979	214	530,351,800	10,188,834	9,226

Source: Minnesota Department of Economic Development.

Table 48

Minnesota's 1979 New and Expanding Industry Data by Area

	No.	Investment	Sq. Ft.	New Jobs
New Manufacturing				
Metropolitan Area	56	$ 120,424,000	2,164,604	1,977
Rural Area	61	161,601,800	2,309,640	1,958
Expanding Manufacturing				
Metropolitan Area	42	96,764,000	1,229,730	2,630
Rural Area	48	390,196,000	1,592,500	1,013
TOTAL MANUFACTURING	207	$ 768,985,800	7,296,474	7,578
Total New and Expanding Industry				
Metropolitan Area				
Manufacturing	98	217,188,000	3,394,334	4,607
Warehousing	93	125,025,800	3,285,000	3,748
Research & Development	6	27,198,000	947,000	90
Power Plants	0	-	-	-
Pollution Control	2	5,390,000	0	5
Headquarters	15	155,550,000	2,562,500	776
TOTAL METROPOLITAN	214	$ 530,351,800	10,188,834	9,226
Rural Area				
Manufacturing	109	551,797,800	3,902,140	2,971
Warehousing	42	24,506,500	738,550	336
Research & Development	0	-	-	-
Power Plants	3	29,150,000	92,000	20
Pollution Control	2	6,400,000	-	5
Headquarters	1	750,000	10,600	-
TOTAL RURAL	157	$ 612,604,300	4,743,290	3,332

Table 49
Minnesota's New and Expanding Industry Comparisons
1973-1979

	No.	Investment	Sq. Ft.	New Jobs
NEW MANUFACTURING				
1973	165	$147,246,700	4,512,185	4,910
1974	119	123,634,700	3,899,650	3,348
1975	98	51,212,200	1,816,300	2,430
1976	61	82,630,000	1,428,670	2,609
1977	94	78,835,000	2,360,270	2,186
1978	99	74,754,500	3,244,275	3,042
1979	117	282,025,800	4,474,244	3,935
EXPANDING MANUFACTURING				
1973	156	113,128,093	4,149,761	3,873
1974	112	71,823,100	1,710,110	2,400
1975	57	34,935,850	738,420	959
1976	47	48,434,000	818,000	790
1977	61	61,612,000	2,008,850	1,838
1978	73	68,189,740	1,838,200	1,548
1979	90	486,960,000	2,822,230	3,643
NEW WAREHOUSING				
1973	76	30,542,200	2,385,680	699
1974	96	42,756,600	2,618,760	581
1975	41	19,642,100	977,070	151
1976	25	14,758,000	459,320	108
1977	43	31,634,000	1,897,020	753
1978	50	39,518,350	2,984,800	90
1979	99	121,635,300	3,163,150	3,745
EXPANDING WAREHOUSING				
1973	66	8,364,300	1,035,650	282
1974	54	15,853,100	643,390	184
1975	22	13,446,400	908,820	180
1976	16	8,765,000	376,050	70
1977	20	7,509,000	166,400	101
1978	26	20,260,000	520,925	905
1979	36	27,897,000	860,400	339
TOTAL NEW INDUSTRY				
1973	248	359,705,900	7,580,865	6,042
1974	223	395,077,600	6,579,410	5,105
1975	142	81,754,300	2,962,520	2,731
1976	89	140,538,000	1,906,990	2,780
1977	143	116,873,000	4,257,290	2,966
1978	150	226,272,850	6,229,075	3,228
1979	229	503,811,100	9,664,894	8,386
TOTAL EXPANDING INDUSTRY				
1973	235	130,045,393	5,293,161	4,158
1974	173	443,169,200	2,358,100	3,467
1975	90	339,984,800	1,671,740	1,904
1976	68	218,549,000	1,212,050	1,233
1977	90	482,338,800	2,175,250	2,031
1978	107	155,039,740	2,454,385	2,467
1979	142	639,145,000	5,267,230	4,172
TOTAL NEW AND EXPANDING INDUSTRY				
1973	483	489,751,293	12,874,026	10,200
1974	396	838,246,800	8,937,510	8,572
1975	232	421,739,100	4,634,260	4,635
1976	157	359,087,000	3,119,040	4,013
1977	233	599,211,400	6,432,540	4,997
1978	257	381,312,590	8,638,460	5,695
1979	371	1,142,956,100	14,932,124	12,558

Source: Minnesota Department of Economic Development.

Table 50

Minnesota Rank Nationally in Agricultural Production and Resources

1978-1979

First	in sugarbeets, sweetcorn, timothy seed, wild rice, turkey production, turkey hens.
Second	in total crop tonnage, oats, springwheat, sunflower seeds, hay, alfalfa, red clover seed, dairy farms, stocks of oats, barley and flaxseed, crop storage on farms.
Third	in all acres harvested, corn for silage, flaxseed, green peas, processed vegetables, total vegetables, hog slaughter, hogs marketed, pig crop.
Fourth	in rye, beeswax, milk production, sheep farms, hogs on farms, milk cows, total farm labor.
Fifth	in durum wheat, honey, farms, total land value.
Sixth	in all wheat.
Seventh	in carrots, dry beans, lamb slaughter, cattle farms.
Eighth	in Irish potatoes, red meat production, cattle slaughter, lamb slaughter, hired farmlands.
Ninth	in storage onions, cattle on feed.
Tenth	in cattle marketed, egg production, cattle on farms, egg type chickens.

Source: Minnesota Department of Agriculture.

Cash Receipts From Farm Marketings, Farm Income , Farm Production Expense

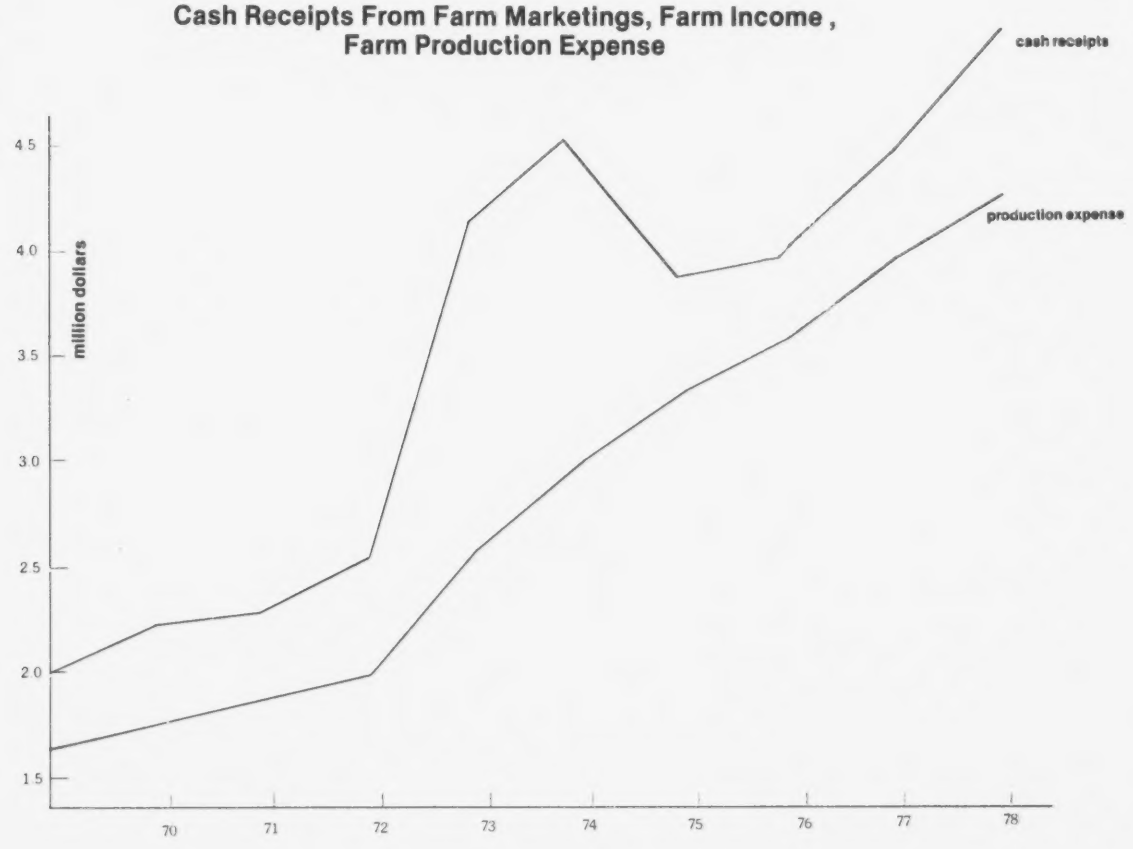


Table 51
Total Gross and Net Income from Farming

	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978
Number of Farms	123,000	121,000	120,000	118,000	117,000	117,000	117,000	117,000	116,000	114,000
Land in Farms	30,900,000	30,700,000	30,600,000	30,600,000	30,600,000	30,600,000	30,600,000	30,600,000	30,600,000	30,300,000
					Millions of Dollars					
Cash Receipts from Farm Marketings	$1,986.1	$2,177.9	$2,238.3	$2,479.1	$4,008.2	$4,430.4	$3809.7	$3,891.9	$4,322.5	$4,851.9
Government Payments	171.2	151.8	112.4	180.0	105.0	18.4	33.9	59.1	82.8	164.3
Total Realized Gross Farm Income	2,339.7	2,516.9	2,541.8	2,857.5	4,340.8	4,732.6	4,199.7	4,370.6	4,918.3	5,568.9
Farm Production Expenses	1,635.0	1,721.0	1,833.6	1,935.3	2,494.5	2,896.4	3,215.4	3,452.9	3,809.0	4,094.9
Realized Net Farm Income [1]	704.7	795.9	708.2	922.3	1,846.3	1,836.2	984.3	917.7	1,109.3	1,474.1
Total Net Farm Income [2]	659.0	819.4	737.4	920.2	2,262.4	1,551.9	1,104.9	594.0	1,661.4	1,650.0
					Dollars per Farm					
Realized Gross Income per Farm	$19,022	$20,801	$21,182	$24,216	$37,101	$40,450	$35,895	$37,356	$42,399	$48,850
Realized Net Income per Farm [1]	5,729	6,578	5,902	7,816	15,780	15,694	8,413	7,844	9,563	12,930
Total Net Income per Farm [2]	5,358	6,772	6,145	7,798	19,337	13,264	9,444	5,077	14,323	14,473

[1] Net income without inventory adjustment
[2] Net income after inventory adjustment

Source: Minnesota Department of Agriculture

Table 52

Agricultural Production by Commodity Groups

Crops	Units (thousands)	1972	1973	1974	1975	1976	1977	1978	1979
Corn for grain	Bu.	455,607	513,360	359,900	407,400	330,400	600,000	643,760	606,000
Soybeans	Bu.	90,300	127,310	84,000	96,725	63,420	133,835	146,160	167,360
Wheat	Bu.	49,292	78,152	80,862	88,368	130,482	131,894	93,225	90,384
Oats	Bu.	124,440	142,800	96,960	101,000	92,700	161,840	98,820	84,930
Barley	Bu.	33,970	40,230	29,564	31,875	34,830	55,080	51,975	40,810
Rye	Bu.	2,990	3,150	1,800	2,225	2,048	2,436	2,352	2,275
Flaxseed	Bu.	1,794	3,119	3,163	2,875	1,950	3,190	2,201	2,219
Hay	Tons	8,163	8,007	7,496	8,005	5,765	8,135	8,932	9,030
Sugarbeets	Tons	1,774	1,568	2,116	2,783	3,026	4,732	4,971	3,782
Potatoes	Cwt.	15,060	14,970	17,425	11,796	13,055	15,023	16,870	14,716
Sunflowers	Lbs.	264,850	288,060	172,025	238,210	157 100	807,060	1,072,020	1,870,620
Dry Edible Beans	Cwt.	496	644	709	384	364	396	592	562
Livestock									
Cattle and Calves	Lbs.	1,487,220	1,534,665	1,400,825	1,469,865	1,555,165	1,368,370	1,278,425	1,248,190
Hogs and Pigs	Lbs.	1,260,215	1,326,930	1,406,447	1,079,944	1,185,367	1,366,517	1,439,837	1,687,176
Sheep and Lambs	Lbs.	29,013	26,981	24,524	21,524	17,633	18,591	17,953	18,079
Poultry[1]	Lbs.	396,164	436,218	410,609	412,987	451,411	408,063	413,829	490,889
Eggs	Doz.	215,333	206,167	198,750	184,083	190,750	176,667	182,417	181,917
Milk	Lbs.	9,850,000	9,271,000	9,382,000	8,946,000	9,239,000	9,483,000	9,089,000	9,145,000

[1]Includes broilers and turkeys, pounds produced.

Source: Minnesota Department of Agriculture.

Table 53

Value of Agricultural Production by Commodity Groups

(In thousands of dollars)

Crops	1972	1973	1974	1975	1976	1977	1978	1979
Corn for Grain	$823,040	$1,235,355	$1,050,908	$1,018,500	$792,960	$1,140,000	$1,339,021	$1,242,300
Soybeans	413,574	639,840	525,840	485,560	434,427	789,627	952,963	995,792
Wheat	113,646	343,631	359,587	352,571	370,536	326,320	275,551	331,308
Oats	87,108	157,080	144,470	148,470	139,050	163,458	110,678	106,163
Barley	46,178	92,600	91,353	86,381	90,558	89,780	97,193	91,823
Rye	2,661	5,828	4,572	5,340	5,325	5,237	4,775	5,005
Flaxseed	5,561	24,016	31,314	18,946	14,040	14,546	12,546	13,092
Hay	N.A.	N.A.	337,320	396,248	406,433	386,460	366,212	388,290
Sugarbeets	24,744	N.A.	86,544	65,679	N.A.	97,479	108,368	N.A.
Potatoes	42,888	47,315	56,283	50,912	35,243	41,637	49,461	40,883
Sunflowers	N.A.	N.A.	28,532	25,860	27,809	81,172	123,404	162,104
Dry Edible Beans	3,634	11,666	12,663	7,181	4,914	6,376	8,110	11,184
Livestock								
Cattle and Calves	458,323	596,509	481,338	455,978	483,030	434,334	560,417	770,878
Hogs and Pigs	316,314	514,849	479,578	503,671	504,966	534,308	672,404	708,613
Sheep and Lambs	8,472	9,194	8,576	9,056	8,274	9,084	10,297	10,690
Poultry[1]	80,868	172,570	107,424	140,673	134,699	141,862	181,786	192,706
Eggs[2]	44,143	91,951	89,040	73,081	81,501	78,440	75,703	89,685
Milk	494,026	588,708	654,886	693,315	803,793	835,452	896,175	N.A.

[1]Includes broilers and turkeys (gross income) and home consumption of broilers.

[2]Gross income

Source: Minnesota Department of Agriculture.

Table 54

Minnesota Agricultural Exports for Selected Years

(Millions of Dollars)

Commodity	FY 1964	FY 1965	FY 1972	FY 1977	Percent Change 72-77
Soybeans	$43	$53	$78	$216	177%
Feed Grains	47	50	72	205	185
Wheat and Flour	43	32	32	182	467
Protein Meal	6	15	23	50	114
Hides and Skins	4	6	15	48	217
Dairy Products	28	20	54	36	-34
Meats and Products	7	7	9	30	243
Lard and Tallow	12	9	9	22	137
Soybean Oil	6	7	13	20	62
Vegetables and Prep.	3	3	3	16	388
Poultry Products	2	2	3	8	219
Flaxseed	2	3	1	N.A.	N.A.
Other Products	18	20	35	84	141
Total Agriculture	222	226	347	918	164

1977(1) Exports in Percent of Farm Sales: 23.7%

1977 U.S. Rank 1977: 10

(1) Commercial sales plus net commodity credit Corporation loans and purchases under price support programs.
FY - Fiscal Year

Source: U.S. Department of Commerce.

Table 55

Production of Iron Ore Products: Minnesota, U.S. and World

(thousands of long tons)

	Minnesota	United States	Minnesota as % of U.S.	World	Minnesota as % of World
1979	60107(P)	NA	NA	NA	NA
1978	55,316	81,475	68%	833,588 est.	7%
1977	30,943	55,750	56	837,638	4
1976	49,764	79,993	62	888,761	6
1975	51,177	78,866	65	887,389	6
1974	58,484	84,355	69	883,834	7
1973	60,021	87,669	68	836,442	7
1972	48,998	75,434	65	765,465	6
1971	51,283	80,762	63	774,677	7
1970	56,073	89,760	62	757,013	7

Note: Production figures exclude manganiferous ores such as those mined on Minnesota's Cuyuna Iron Range. Since 1970 production of manganiferous ores in Minnesota has averaged less than 200,000 gross tons per year or less than 1% of Minnesota annual production.

Source: U.S. Bureau of Mines, Department of the Interior.

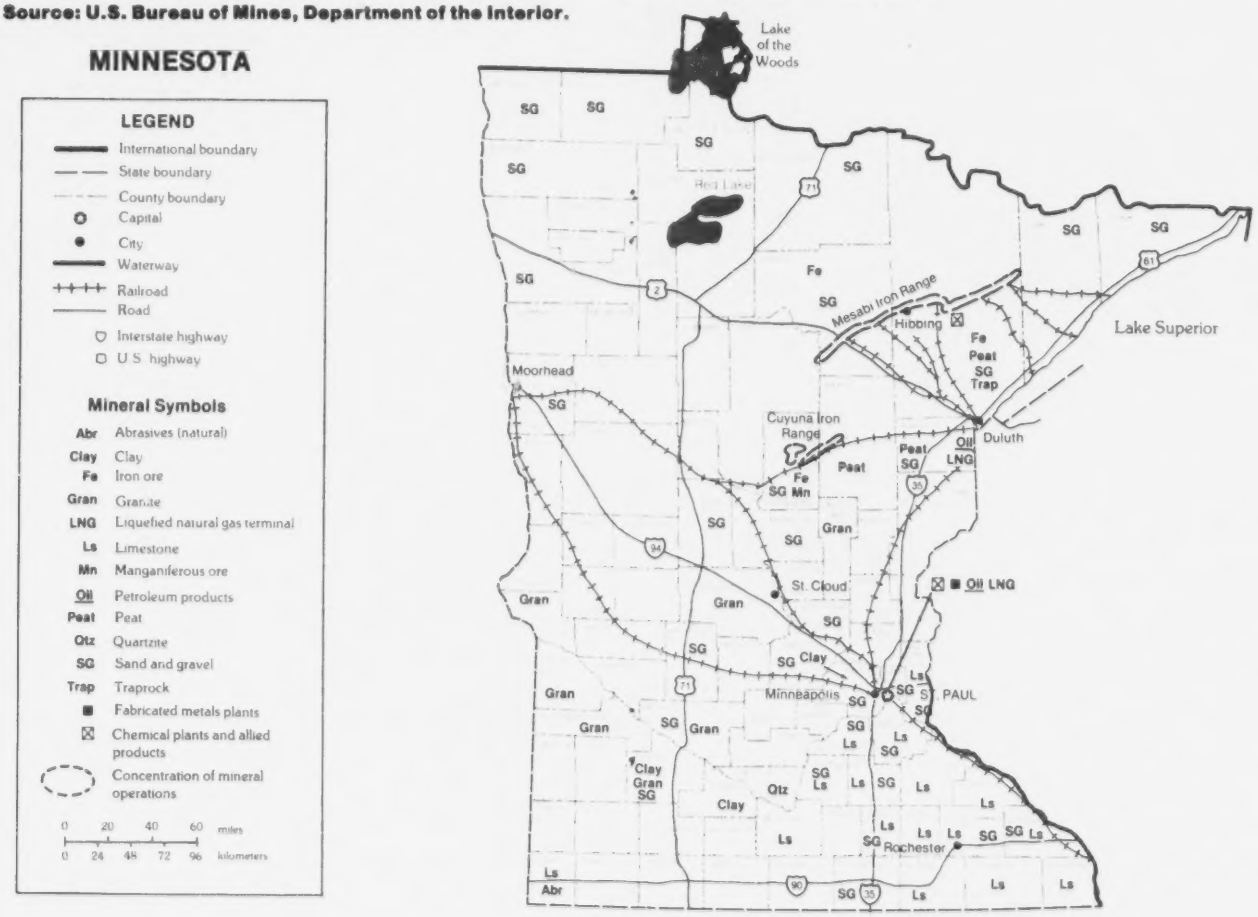


Table 56

Nonfuel Mineral Production in Minnesota

Mineral	1976 Quantity	1976 Value thousand $	1977 Quantity	1977 Value thousand $	1978 Quantity	1978 Value thousand $	1979(P) Quantity	1979(P) Value thousand $
Clays[2] (thousand short tons)	N.A.	W	163	276	174	2,090	138	1,927
Gem Stones	N.A.	15	N.A.	15	N.A.	5	N.A.	5
Iron Ore (usable) (thousand long tons, gross wt.)	47,874	1,137,733	30,245	782,627	56,473	1,627,099	60,107	1,960,245
Lime (thousand short tons)	103	2,794	123	4,315	116	4,263	67	2,777
Manganiferous Ore (short tons)	202,271	W	166,440	W	253,399	W	W	W
Peat (thousand short tons)	26	1,505	28	1,280	20	716	17	660
Sand and gravel do	33,486	44,503	30,713	59,629	31,080[3]	54,970[3]	31,000	62,000
Stone:								
Crushed do	7,567	25,767	7,831	16,991	9,666	20,730	9,973	21,649
Dimension do			33	8,133	35	9,356	28	10,859
Combined value of abrasive stone (1979), clays (kaolin), industrial sand (1978), and values indicated by W	XX	5,713	XX	2,337	XX	5,502	XX	2,346
TOTAL	XX	1,218,030	XX	875,603	XX	1,724,731	XX	2,062,468

(P)Preliminary. N.A. Not Available. W withheld to avoid disclosing proprietary data; value included in "combined value" figure. XX not available.

[1]Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

[2]Excludes Kaolin, value included in "combined value" figure.

[3]Excludes Industrial sand, value included in "combined value" figure.

Source: U.S. Bureau of Mines, Department of the Interior.

Table 57

Minnesota Taconite Plants

Company	Annual pellet capacity thousand long tons	Estimated investment thousand dollars	Employment
Butler Taconite	2,650	66,000	600
Erie Mining Co.	10,500	350,000	2,900
Eveleth Mines	6,000	320,000	1,250
Hibbing Taconite Co.	8,100	350,000	1,050
Inland Steel Mining Co.[1]	2,600	150,000	450
Minntac (United States Steel Corp.)	18,500	425,000	4,050
National Steel Pellet Plant	5,800	240,000	1,000
Reserve Mining Co.	10,800	350,000	3,000
TOTAL	64,950	2,251,000	14,525

[1]Including final stage under construction.

Source: Minnesota Department of Natural Resources, U.S. Bureau of Mines.

Table 58
Minnesota Income from Specific Taxes on Minerals[1]

(Thousand dollars)

Source	1976	1977	1978
Metallic minerals:			
Royalty tax	3,503	3,793	2,851
Occupation tax	24,321	25,057	10,193
Production tax	30,347	30,868	48,810
Ad valorem tax (iron ore)	4,551	4,043	4,257
Taconite tailings tax	-	-	89
Nonmetallic minerals: Sand and gravel tax	73	59	e76
Total	62,795	63,820	66,276

eEstimate.

[1]Fiscal year July 1 through June 30.

Source: Minnesota Department of Natural Resources, U.S. Bureau of Mines.

Table 59
Pulpwood Production from Roundwood by County and Species (1978) in Hundred Standard Cords, Roughwood Basis

MINNESOTA

Unit[1] and County	All Species	Pine	Spruce	Balsam Fir	Hemlock	Tamarack	Cedar	Aspen	Birch	Oak	Maple	Other Hdwds.
Northern Aspen Birch												
Carlton	257	32	31	22	0	1	0	168	2	0	1	0
Cook	255	60	115	50	0	0	0	30	0	0	0	0
Koochiching	2,574	163	661	263	0	157	0	1,217	4	0	1	108
Lake	680	200	180	48	0	0	0	247	5	0	X	0
St. Louis	2,974	436	275	206	0	21	0	1,966	10	X	1	57
TOTAL	6,740	891	1,262	589	0	179	0	3,628	21	X	3	167
Northern Pine												
Aitkin	593	17	23	14	0	31	0	479	6	13	6	4
Becker	23	18	0	0	0	0	0	5	0	0	0	0
Beltrami	818	163	97	107	0	17	0	426	6	0	1	1
Cass	749	178	7	13	0	9	0	525	8	3	1	5
Clearwater	174	24	14	12	0	18	0	106	X	0	X	0
Crow Wing	169	78	X	X	0	0	0	91	0	0	0	0
Hubbard	427	113	6	3	0	2	0	303	0	0	0	0
Itasca	1,473	74	107	215	0	23	0	972	29	3	6	44
Lake of the Woods	236	71	85	3	0	4	0	73	0	0	0	X
Mahnomen	18	11	0	0	0	2	0	5	0	0	0	0
Roseau	155	65	38	1	0	X	0	51	0	0	0	0
Wadena	108	78	0	1	0	0	0	29	0	0	0	0
TOTAL	4,943	890	377	369	0	106	0	3,065	49	19	14	54
Central Hardwood												
Benton	1	0	0	0	0	0	0	1	0	0	0	0
Chisago	2	0	0	0	0	0	0	2	0	0	0	0
Hennepin	29	0	0	0	0	0	0	0	0	0	0	29
Isanti	15	15	0	0	0	0	0	0	0	0	0	0
Kanabec	63	6	0	0	0	0	0	37	4	12	4	0
Mille Lacs	162	0	0	0	0	0	0	101	12	37	12	0
Morrison	101	18	X	0	0	0	0	63	4	12	4	0
Otter Tail	15	10	0	0	0	0	0	5	0	0	0	0
Pine	153	12	X	0	0	0	0	137	2	2	0	0
Ramsey	20	0	0	0	0	0	0	0	0	0	0	20
Sherburne	X	0	X	0	0	0	0	0	0	0	0	0
Todd	17	15	0	0	0	0	0	2	0	0	0	0
TOTAL	578	76	X	0	0	0	0	348	22	63	20	49
Prairie												
Polk	27	0	X	0	0	22	0	5	0	0	0	0
TOTAL	27	0	X	0	0	22	0	5	0	0	0	0
STATE TOTAL	12,288	1,857	1,639	953	0	307	0	7,046	92	82	37	270

[1]Includes only those counties that supplied pulpwood in 1978.

X = Less than 50 Cords.

Source: North Central Forest Experiment Station.

Table 60

Amount of Forest Products Harvested in Minnesota 1977

	Amount	Value
Pulpwood	1,332,819 cds.	$ 579,344,290
Lumber, Logs, Bolts	195,000,000 bd. ft.	26,200,020
Christmas Trees, Wreaths, etc.	3,100,000 pcs.	10,850,000
Specialty Wood Products	100,686 cds.	13,531,300
Posts	1,750,180 pcs.	
Poles	158,995 pcs.	4,828,580
Piling	171,000 Lin. ft.	
Fuelwood	379,500 cds.	8,728,500
Railroad Ties	172,205 pcs.	1,131,280
By-Products & Mill Residue		14,711,960
Total value of forest products harvested in Minnesota		$ 659,325,930
Total value of secondary manufacturing of forest products harvested in Minnesota and remanufacture of imported wood		$ 804,377,635
		$ 1,463,703,565

Source: Minnesota Forest Industries, Information Committee.

Table 61

Minnesota Railroad Mileage By Category

(As of Feb. 13, 1980)

Railroad	Category 1* Miles/Lines	Category 2** Miles/Lines	Category 3*** Miles/Lines	Category 4**** Miles/Lines	Miles in Categories 1-4	Category 5 Remaining Miles
Burlington Northern, Inc.	37.51/4	-	69.18/4	-	106.69/8	2,722
Chicago and Northwestern Transportation Co.	148.1/6	-	106.8/3	24.8/1	318.0/10	1,029
Duluth, Missabe and Iron Range Railway	-	32.36/2	-	-	32.36/2	401
Duluth, Winnipeg and Pacific Railway	10.5/1	-	-	-	105.1/1	158
Illinois Central Gulf Railroad	-	-	11.4/1	-	11.4/1	26
Chicago, Milwaukee, St. Paul and Pacific Railroad	887.9/16	-	345.6/6	-	1233.5/22	-
Chicago, Rock Island and Pacific	31.38/1	-	21.07/1	-	52.45/2	150
Soo Line Railroad	57.48/1	43.53/1	-	-	101.01/2	931
TOTALS	1,172.87/29	75.89/3	554.05/15	24.80/1	1,865.91/48	5,417
		Total Class I Rail Carrier Mileage in Minnesota				7,282.91 miles

*Category 1—Anticipated Subject to Abandonment, Application within 3 year

**Category 2—Potentially Subject to Abandonment

***Category 3—Application presently Pending before Commission.

****Category 4—Operated Under Subsidy 49 U.S.C.

Source: Minnesota Department of Transportation.

Table 62

Ownership of Roadways in Minnesota

Level of Government	System	Mileage
State	Trunk Highway	12,190
County	State Aid Highway	28,860
County	County Road	15,170
Township	Township Road	56,380
Municipality	State Aid Street	1,550
Municipality	Local Street	10,870
Other	Agency Road	2,520
		TOTAL 128,540

Source: Minnesota Department of Transportation.

Table 63

Regional Characteristics of Highways

Region	Area (Sq. Mi.)	% of Total	Roadways (Miles)	% of Total	Trunk Hwy (Miles)	% of Total
1	8,551	10.0	13,630	10.6	960	7.9
2	7,456	8.7	5,960	4.6	610	5.0
3	20,338	23.8	13,650	10.6	1,760	14.4
4	8,671	10.2	15,380	12.0	1,310	10.8
5	6,267	7.4	8,630	6.7	780	6.4
6E	3,001	3.5	5,860	4.6	550	4.5
6W	3,427	4.0	6,650	5.2	610	5.0
7E	3,540	4.2	5,380	4.2	550	4.5
7W	2,983	3.5	6,230	4.8	540	4.4
8	5,902	6.9	11,830	9.2	960	7.9
9	5,266	6.2	10,430	8.1	960	7.9
10	6,908	8.1	13,710	10.7	1,110	9.1
11	3,018	3.5	11,200	8.7	1,110	9.1
Statewide	85,328	100.0	128,540	100.0	12,190	100.0

Source: Minnesota Department of Transportation.

National Air Service from Minneapolis-St. Paul

(time in hours: minutes)

Source: *Official Airline Guide*

Minnesota's Highway System

Motor Freight Service from Minneapolis-St. Paul

(time in days)

Source: Northern Natural Gas Company *Transportation Data Guide*

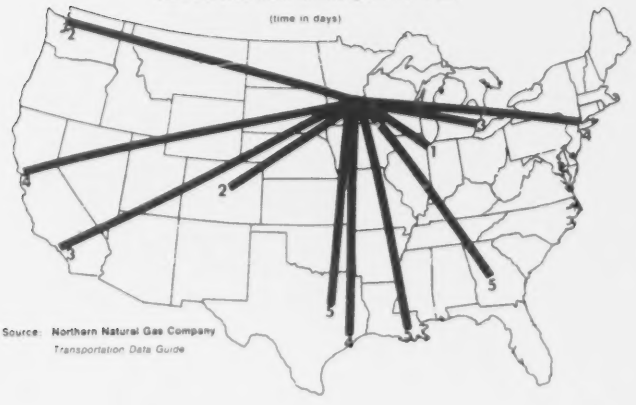
Mileage of Minnesota's Highway System

Federal Interstate	833
State trunk highways	12,191
County state aid highways	29,749
County roads	15,172
Township roads	56,299
Municipal state aid highways	1,444
Municipal streets	13,381

Source: Minnesota Department of Highways, Office of Program Planning

Rail Service from Minneapolis-St. Paul

(time in days)



Source: Northern Natural Gas Company
Transportation Data Guide

Rail Trackage in Minnesota

Burlington Northern	2,880
Chicago and Northwestern	1,349
Milwaukee Road	1,048
Rock Island	151
Illinois	20
Duluth-Winnipeg-Pacific	165
Soo Line	957
Duluth-Mesabi-Iron Range	424
Other	--
Total Miles	6,994

Source: State Planning Agency, *Minnesota Horizons*

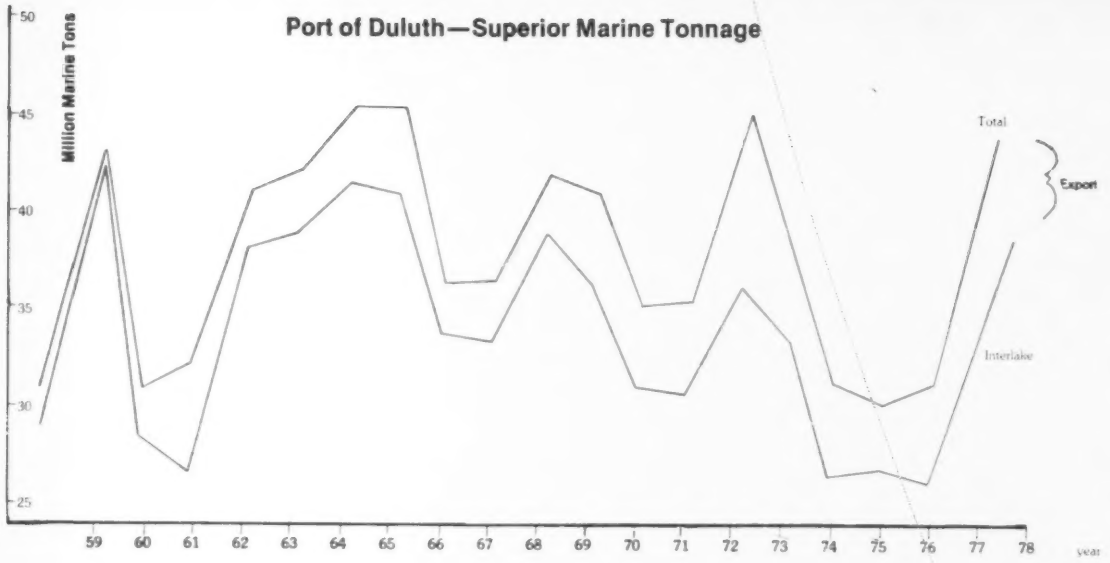


Table 64
Airline Passengers

	1974	1975	1976	1977	1978	1979
Minneapolis—St. Paul International Airport[1]	6,671,668	6,775,788	7,332,061	7,797,144	7,781,778	9,309,370
Duluth International Airport[2]	200,640	200,083	219,429	228,117	250,655	262,206
Rochester Municipal Airport[2]	297,994	295,146	320,937	344,556	299,625	343,708

[1]Arrivals and Departures less through trips
[2]Total airline passengers
Source: Minnesota Department of Economic Development, Research Division

Table 65
Port of Duluth-Superior
20-Year Tonnage Summary

	Overseas Export Import	Interlake	Total
1959	1,992,825	29,484,540	31,447,365
1960	2,426,790	40,251,010	42,677,800
1961	2,423,240	28,953,232	31,376,472
1962	2,846,083	27,452,298	30,298,381
1963	2,908,900	38,778,647	41,687,547
1964	3,273,005	39,651,890	42,924,895
1965	3,653,854	42,382,252	46,036,106
1966	4,201,569	41,998,788	46,200,357
1967	2,604,661	34,897,338	37,501,999
1968	2,848,398	34,864,314	37,712,712
1969	2,789,560	40,345,600	43,135,160
1970	4,684,971	37,838,393	42,523,364
1971	4,121,360	32,815,627	36,936,987
1972	5,254,288	32,014,849	37,269,137
1973*	8,855,681	38,005,382	46,861,063
1974	4,254,412	35,899,119	40,143,531
1975	4,561,097	28,982,248	33,543,345
1976	3,306,812	29,324,564	32,631,376
1977	4,907,768	28,792,288	33,700,056
1978*	8,745,448	37,243,170	45,988,618
TOTAL	80,660,722	699,965,549	780,626,271

*Largest overseas export-import years
Source: Minnesota World Port, Vol. 14, No.1:79.

Table 66

Port of Duluth—Superior
Marine Tonnage Report

(In tons of 2,000 pounds)

	Year To Date	
	NOV. 1979	**NOV. 1978**
International Trade		
Imports	652,563	428,525
Overseas Imports		
Fertilizers, bulk	4,988	15,967
Gen. Cargo, ex. Steel	17,675	12,709
Gen. Cargo, Steel	43,165	23,212
Limestone & L. Products	37,971	
Total Overseas Imports	103,799	51,888
Canadian Imports		
Calcium Chloride, bulk	2,002	–
Grain	11,316	8,569
Limestone & L. Products	153,449	–
Lumber	331	5,628
Newsprint	111,895	123,663
Salt	164,371	120,152
Steel	1,293	6,276
Woodpulp	104,107	112,349
Total Canadian Imports	548,764	376,637
Exports	9,205,454	10,382,722
Overseas Exports		
Gen. Cargo	29,668	48,425
Grain	3,631,832	5,060,258
Grain By Products	1,258,859	1,168,991
Liquid Cargoes	10,714	14,011
Misc. Bulk	82,179	40,594
Total Overseas Exports	5,013,252	6,332,279
Canadian Exports		
Grain	1,668,102	1,673,202
Iron Ore & Concentrates	2,335,284	2,291,600
Misc. Bulk	188,816	85,641
Total Canadian Exports	4,192,202	4,050,443
Total Domestic	34,813,673	31,104,134
Domestic Receipts		
Calcium Chloride, Liquid	4,250	4,000
Coal or Coke	425,931	705,645
Limestone & L. Products	1,347,835	1,523,268
Petroleum Products	161,530	121,660
Slag	8,000	16,320
Total Domestic Receipts	1,947,546	2,370,893
Domestic Shipments		
Coal or Coke	3,705,585	2,968,792
Grains	1,244,800	1,487,586
Iron Ore & Concentrates	27,803,786	24,089,620
Petroleum Products	111,956	127,116
Potash	–	60,127
Total Domestic Shipments	32,866,127	28,733,241
Total Vessel Arrivals	2,028	2,073
Ocean Vessel Arrivals, No.	343	448
Lake Vessel Arrivals, No.	1,685	1,625

28 Countries represented in 1979 of ocean vessels.
Greece – 105, Liberia – 65, Yugoslavia – 29, United Kingdom – 20, Panama – 19, France – 16, Denmark – 10, Singapore – 10, Finland – 9, India – 9, Spain – 9, Italy – 6, Poland – 5, Turkey – 5, Belgium – 4, Algeria – 3, Ghana – 3, Japan – 3, Brazil – 2, Canada – 2, United States – 2, Bermuda – 1, Bulgaria – 1, Cyprus – 1, Morocco – 1, Netherlands – 1, Norway – 1, and Russia – 1.

Sources: American Iron Ore Association, Corps of Engineers, Minneapolis Grain Exchange, Seaway Port Authority of Duluth and Terminal Operators of Duluth & Superior.

Table 67

Barge Shipments from River Terminals
Minneapolis, St. Paul, Red Wing and Winona

(Thousands of Bushels)

	Wheat		Durum		Corn		Oats		Rye		Soy Beans		Total	
	No.	**Bu.**	**No.**	**Bu.**	**No.**	**Bu.**	**No.**	**Bu.**	**No.**	**Bu.**	**No.**	**Bu.**	**No.**	**Bu.**
March – Dec. 1973	643	30,522	71	33.90	3,076	156,222	183	14,624	24	1,184	501	24,684	4,503	230,626
Jan. – Dec. 1974	1,172	55,222	98	4,643	2,734	140,451	182	14,599	7	350	746	36,282	4,939	251,547
Jan. – Dec. 1975	1,213	58,722	118	5,691	1,650	84,715	95	7,295	8	388	357	17,505	3,441	174,316
Jan. – Dec. 1976	1,376	65,565	74	3,521	1,843	95,280	95	7,101	10	471	613	30,215	4,011	202,153
Jan. – Nov. 1977	1,262	60,844	85	4.94	1,478	77,985	98	7,917	13	619	512	25,105	3,448	176,564
Jan. – Nov. 1978	1,118	53,604	37	1,814	2,244	118,762	104	8,362	9	452	1,458	72,173	4,970	255,167

Source: Minneapolis Grain Exchange.

Table 68

Historic Demand for Fuels

	1976		1977		1978	
	Units	10^{12}BTU	Units	10^{12}BTU	Units	10^{12}BTU
Coal	(Thousand Tons)		(Thousand Tons)		(Thousand Tons)	
Commercial	90	1.9	50	1.1	53	1.1
Industrial	1784	37.9	1843	39.1	1951	41.4
Elec. Generation	10448	194.3	11980	222.8	11198	208.3
Total	12322	234.1	13873	263.0	13202	250.8
Natural Gas	(Billion Cu. Ft.)		(Billion Cu. Ft.)		(Billion Cu. Ft.)	
Residential	117.5	117.5	111.6	111.6	118.6	118.6
Commercial	65.3	65.3	56.7	56.7	69.4	69.4
Industrial	120.1	120.1	116.3	116.3	120.1	120.1
Transportation	-	-	-	-	-	-
Elec. Generation	13.4	13.4	5.1	5.1	1.5	1.5
Total	316.3	316.3	289.7	289.7	309.6	309.6
Distillate (including diesel)	(m/gallons)		(m/gallons)		(m/gallons)	
Residential	371.9	51.6	366.8	50.9	408.7	56.7
Commercial	174.8	24.2	175.6	24.4	149.8	20.8
Industrial	227.3	31.5	176.1	24.5	221.8	30.8
Transportation	290.7	40.3	277.7	38.5	317.4	44.0
Elec. Generation	20.8	2.9	37.0	5.1	29.7	4.1
Total	1085.5	150.5	1033.2	143.4	1127.4	156.4
Residual						
Commercial	1.2	0.2	1.1	0.2	2.7	0.4
Industrial	179.1	26.8	127.1	19.0	120.9	18.1
Transportation	20.1	3.0	6.7	1.0	20.5	3.1
Elec. Generation	43.0	6.4	50.4	7.5	49.2	7.4
Total	243.4	36.4	185.3	27.7	193.3	29.0
LP Gas						
Residential	123.2	11.3	116.5	10.7	90.6	8.4
Commercial	123.1	11.3	116.5	10.7	90.6	8.3
Industrial	112.2	10.3	108.1	9.9	117.4	10.8
Transportation	9.8	0.9	8.2	0.8	9.1	0.8
Total	368.3	33.8	349.3	32.1	307.7	28.3
Kerosine						
Residential	37.2	5.0	32.2	4.3	22.0	3.0
Industrial	6.9	0.9	6.5	0.9	6.3	0.9
Total	44.1	5.9	38.6	5.2	28.3	3.9
Gasoline						
Transportation	1924.4	240.6	1963.8	245.5	2061.2	257.7
Industrial (Agriculture)	245.8	30.7	246.6	30.8	247.4	30.9
Total	2170.2	271.3	2210.4	276.3	2308.6	288.6
Jet Fuel						
Transportation	183.6	24.8	180.5	24.4	170.6	23.0
Total	183.6	24.8	180.5	24.4	170.6	23.0
Nuclear	-	108.5	-	122.2	-	126.9
Hydro	-	5.2	-	5.8	-	9.9
Total-Primary Fuels	-	1186.8	-	1189.8	-	1226.4
Electricty (million kwhrs.)		Purchased		Purchased		Purchased
Residential	10686		10979		11422	
Commercial	9769		10072		10313	
Industrial	10636	7651	9504	7646	12388	9828
Total	31091	28106	30555	28697	34123	31563

Source: Minnesota Energy Agency.

Table 69

Crude Oil Supply Sources for Minnesota's Four Area Refineries*—1979

	Barrels/Day	Percent
Canadian	152,000	65
Portal	16,538	7
Williams Pipeline	58,082	25
Barge	5,610	2
	232,230	100%

*Crude Oil processed by Minnesota refineries accounted for approximately 60% of all petroleum products consumed. Of the remainder 38% entered the state through product pipelines and 2% came by barge, truck or rail.

Source: Minnesota Energy Agency.

Table 70

Fuelwood Permits Issued by Minnesota DNR[1]

Fiscal Year	Number of Permits
1975	1103
1976	2038
1977	3400*
1978	4889
1979	6000*

*estimate

[1]Each permit averages approximately ten standard cents (28cubic ft.) or approximately enough to heat an average home over one winter.

Source: Minnesota Department of Natural Resources.